

SEQUENCE LISTING

<110> INYCTE PHARMACEUTICALS, INC.
 HILLMAN, Jennifer L.
 LAL, Preeti
 TANG, Y. Tom
 CORLEY, Neil C.
 GUEGLER, Karl J.
 BAUGHN, Mariah R.
 PATTERSON, Chandra
 BANDMAN, Olga
 AU-YOUNG, Janice
 GORGONE, Gina A.
 YUE, Henry
 AZIMZAI, Yalda
 REDDY, Roopa
 LU, Dyung Aina M.
 SHIH, Leo L.

<120> PHOSPHORYLATION EFFECTORS

<130> PF-0565 PCT

<140> To Be Assigned
 <141> Herewith

<150> 09/123,494; unassigned; 09/152,814; unassigned; 09/173,482;
 unassigned; 60/106,889; 60/109,093; 60/113,796;
 <151> 1998-07-28; 1998-07-28; 1998-09-14; 1998-09-14; 1998-10-14;
 1998-10-14; 1998-11-03; 1998-11-19; 1998-12-22

<160> 61

<170> PERL Program

<210> 1
 <211> 300
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte Clone Number: 132240

<400> 1
 Met Glu Ser Pro Leu Glu Ser Gln Pro Leu Asp Ser Asp Arg Ser
 1 5 10 15
 Ile Lys Glu Ser Ser Phe Glu Glu Ser Asn Ile Glu Asp Pro Leu
 20 25 30
 Ile Val Thr Pro Asp Cys Gln Glu Lys Thr Ser Pro Lys Gly Val
 35 40 45
 Glu Asn Pro Ala Val Gln Glu Ser Asn Gln Lys Met Leu Gly Pro
 50 55 60
 Pro Leu Glu Val Leu Lys Thr Leu Ala Ser Lys Arg Asn Ala Val
 65 70 75

Ala	Phe	Arg	Ser	Phe	Asn	Ser	His	Ile	Asn	Ala	Ser	Asn	Asn	Ser
				80					85					90
Glu	Pro	Ser	Arg	Met	Asn	Met	Thr	Ser	Leu	Asp	Ala	Met	Asp	Ile
				95					100					105
Ser	Cys	Ala	Tyr	Ser	Gly	Ser	Tyr	Pro	Met	Ala	Ile	Thr	Pro	Thr
				110					115					120
Gln	Lys	Arg	Arg	Ser	Cys	Met	Pro	His	Gln	Thr	Pro	Asn	Gln	Ile
				125					130					135
Lys	Ser	Gly	Thr	Pro	Tyr	Arg	Thr	Pro	Lys	Ser	Val	Arg	Arg	Gly
				140					145					150
Val	Ala	Pro	Val	Asp	Asp	Gly	Arg	Ile	Leu	Gly	Thr	Pro	Asp	Tyr
				155					160					165
Leu	Ala	Pro	Glu	Leu	Leu	Leu	Gly	Arg	Ala	His	Gly	Pro	Ala	Val
				170					175					180
Asp	Trp	Trp	Ala	Leu	Gly	Val	Cys	Leu	Phe	Glu	Phe	Leu	Thr	Gly
				185					190					195
Ile	Pro	Pro	Phe	Asn	Asp	Glu	Thr	Pro	Gln	Gln	Val	Phe	Gln	Asn
				200					205					210
Ile	Leu	Lys	Arg	Asp	Ile	Pro	Trp	Pro	Glu	Gly	Glu	Glu	Lys	Leu
				215					220					225
Ser	Asp	Asn	Ala	Gln	Ser	Ala	Val	Glu	Ile	Leu	Leu	Thr	Ile	Asp
				230					235					240
Asp	Thr	Lys	Arg	Ala	Gly	Met	Lys	Glu	Leu	Lys	Arg	His	Pro	Leu
				245					250					255
Phe	Ser	Asp	Val	Asp	Trp	Glu	Asn	Leu	Gln	His	Gln	Thr	Met	Pro
				260					265					270
Phe	Ile	Pro	Gln	Pro	Asp	Asp	Glu	Thr	Asp	Thr	Ser	Tyr	Phe	Glu
				275					280					285
Ala	Arg	Asn	Thr	Ala	Gln	His	Leu	Thr	Val	Ser	Gly	Phe	Ser	Leu
				290					295					300

<210> 2

<211> 147

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte Clone Number: 2180116

<400> 2

Met	Ala	Ala	Gln	Arg	Leu	Gly	Lys	Arg	Val	Leu	Ser	Lys	Leu	Gln
1				5					10					15
Ser	Pro	Ser	Arg	Ala	Arg	Gly	Pro	Gly	Gly	Ser	Pro	Gly	Gly	Met
				20					25					30
Gln	Lys	Arg	His	Ala	Arg	Val	Thr	Val	Lys	Tyr	Asp	Arg	Arg	Glu
				35					40					45
Leu	Gln	Arg	Arg	Leu	Asp	Val	Glu	Lys	Trp	Ile	Asp	Gly	Arg	Leu
				50					55					60
Glu	Glu	Leu	Tyr	Arg	Gly	Met	Glu	Ala	Asp	Met	Pro	Asp	Glu	Ile
				65					70					75
Asn	Ile	Asp	Glu	Leu	Leu	Glu	Leu	Glu	Ser	Glu	Glu	Glu	Arg	Ser
				80					85					90
Arg	Lys	Ile	Gln	Gly	Leu	Leu	Lys	Ser	Cys	Gly	Lys	Pro	Val	Glu
				95					100					105

Asp	Phe	Ile	Gln	Glu	Leu	Leu	Ala	Lys	Leu	Gln	Gly	Leu	His	Arg
				110					115					120
Gln	Pro	Gly	Leu	Arg	Gln	Pro	Ser	Pro	Ser	His	Asp	Gly	Ser	Leu
				125					130					135
Ser	Pro	Leu	Gln	Asp	Arg	Ala	Arg	Thr	Ala	His	Pro			
				140					145					

<210> 3

<211> 431

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte Clone Number: 2197671

<400> 3

Met	Ala	His	Ser	Pro	Val	Gln	Ser	Gly	Leu	Pro	Gly	Met	Gln	Asn
1				5					10					15
Leu	Lys	Ala	Asp	Pro	Glu	Glu	Leu	Phe	Thr	Lys	Leu	Glu	Lys	Ile
				20					25					30
Gly	Lys	Gly	Ser	Phe	Gly	Glu	Val	Phe	Lys	Gly	Ile	Asp	Asn	Arg
				35					40					45
Thr	Gln	Lys	Val	Val	Ala	Ile	Lys	Ile	Ile	Asp	Leu	Glu	Glu	Ala
				50					55					60
Glu	Asp	Glu	Ile	Glu	Asp	Ile	Gln	Gln	Glu	Ile	Thr	Val	Leu	Ser
				65					70					75
Gln	Cys	Asp	Ser	Pro	Tyr	Val	Thr	Lys	Tyr	Tyr	Gly	Ser	Tyr	Leu
				80					85					90
Lys	Asp	Thr	Lys	Leu	Trp	Ile	Ile	Met	Glu	Tyr	Leu	Gly	Gly	Gly
				95					100					105
Ser	Ala	Leu	Asp	Leu	Leu	Glu	Pro	Gly	Arg	Leu	Asp	Glu	Thr	Gln
				110					115					120
Ile	Ala	Thr	Ile	Leu	Arg	Glu	Ile	Leu	Lys	Gly	Leu	Asp	Tyr	Leu
				125					130					135
His	Ser	Glu	Lys	Lys	Ile	His	Arg	Asp	Ile	Lys	Ala	Ala	Asn	Val
				140					145					150
Leu	Leu	Ser	Glu	His	Gly	Glu	Val	Lys	Leu	Ala	Asp	Phe	Gly	Val
				155					160					165
Ala	Gly	Gln	Leu	Thr	Asp	Thr	Gln	Ile	Lys	Arg	Asn	Thr	Phe	Val
				170					175					180
Gly	Thr	Pro	Phe	Trp	Met	Ala	Pro	Glu	Val	Ile	Lys	Gln	Ser	Ala
				185					190					195
Tyr	Asp	Ser	Lys	Ala	Asp	Ile	Trp	Ser	Leu	Gly	Ile	Thr	Ala	Ile
				200					205					210
Glu	Leu	Ala	Arg	Gly	Glu	Pro	Pro	His	Ser	Glu	Leu	His	Pro	Met
				215					220					225
Lys	Val	Leu	Phe	Leu	Ile	Pro	Lys	Asn	Asn	Pro	Pro	Thr	Leu	Glu
				230					235					240
Gly	Asn	Tyr	Ser	Lys	Pro	Leu	Lys	Glu	Phe	Val	Glu	Ala	Cys	Leu
				245					250					255
Asn	Lys	Glu	Pro	Ser	Phe	Arg	Pro	Thr	Ala	Lys	Glu	Leu	Leu	Lys
				260					265					270
His	Lys	Phe	Ile	Leu	Arg	Asn	Ala	Lys	Lys	Thr	Ser	Tyr	Leu	Thr
				275					280					285

Glu	Leu	Ile	Asp	Arg	Tyr	Lys	Arg	Trp	Lys	Ala	Glu	Gln	Ser	His
				290					295					300
Asp	Asp	Ser	Ser	Ser	Glu	Asp	Ser	Asp	Ala	Glu	Thr	Asp	Gly	Gln
				305					310					315
Ala	Ser	Gly	Gly	Ser	Asp	Ser	Gly	Asp	Trp	Ile	Phe	Thr	Ile	Arg
				320					325					330
Glu	Lys	Asp	Pro	Lys	Asn	Leu	Glu	Asn	Gly	Ala	Leu	Gln	Pro	Ser
				335					340					345
Asp	Leu	Asp	Arg	Asn	Lys	Met	Lys	Asp	Ile	Pro	Lys	Arg	Pro	Phe
				350					355					360
Ser	Gln	Cys	Leu	Ser	Thr	Ile	Ile	Ser	Pro	Leu	Phe	Ala	Glu	Leu
				365					370					375
Lys	Glu	Lys	Ser	Gln	Ala	Cys	Gly	Gly	Asn	Leu	Gly	Ser	Ile	Glu
				380					385					390
Glu	Leu	Arg	Gly	Ala	Ile	Tyr	Leu	Ala	Glu	Glu	Ala	Cys	Pro	Gly
				395					400					405
Ile	Ser	Asp	Thr	Met	Val	Ala	Gln	Leu	Val	Gln	Arg	Leu	Gln	Arg
				410					415					420
Tyr	Ser	Leu	Ser	Gly	Gly	Gly	Thr	Ser	Ser	His				
				425					430					

<210> 4

<211> 218

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte Clone Number: 2594943

<400> 4

Met	Asn	Cys	Arg	Ser	Glu	Val	Leu	Glu	Val	Ser	Val	Glu	Gly	Arg
1				5					10					15
Gln	Val	Glu	Glu	Ala	Met	Leu	Ala	Val	Leu	His	Thr	Val	Leu	Leu
				20					25					30
His	Arg	Ser	Thr	Gly	Lys	Phe	His	Tyr	Lys	Lys	Glu	Gly	Thr	Tyr
				35					40					45
Ser	Ile	Gly	Thr	Val	Gly	Thr	Gln	Asp	Val	Asp	Cys	Asp	Phe	Ile
				50					55					60
Asp	Phe	Thr	Tyr	Val	Arg	Val	Ser	Ser	Glu	Glu	Leu	Asp	Arg	Ala
				65					70					75
Leu	Arg	Lys	Val	Val	Gly	Glu	Phe	Lys	Asp	Ala	Leu	Arg	Asn	Ser
				80					85					90
Gly	Gly	Asp	Gly	Leu	Gly	Gln	Met	Ser	Leu	Glu	Phe	Tyr	Gln	Lys
				95					100					105
Lys	Lys	Ser	Arg	Trp	Pro	Phe	Ser	Asp	Glu	Cys	Ile	Pro	Trp	Glu
				110					115					120
Val	Trp	Thr	Val	Lys	Val	His	Val	Val	Ala	Leu	Ala	Thr	Glu	Gln
				125					130					135
Glu	Arg	Gln	Ile	Cys	Arg	Glu	Lys	Val	Gly	Glu	Lys	Leu	Cys	Glu
				140					145					150
Lys	Ile	Ile	Asn	Ile	Val	Glu	Val	Met	Asn	Arg	His	Glu	Tyr	Leu
				155					160					165
Pro	Lys	Met	Pro	Thr	Gln	Ser	Glu	Val	Asp	Asn	Val	Phe	Asp	Thr
				170					175					180

Gly Leu Arg Asp Val Gln Pro Tyr Leu Tyr Lys Ile Ser Phe Gln
 185 190 195
 Ile Thr Asp Ala Leu Gly Thr Ser Val Thr Thr Thr Met Arg Arg
 200 205 210
 Leu Ile Lys Asp Thr Leu Ala Leu
 215

<210> 5
 <211> 474
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte Clone Number: 1513871

<400> 5
 Met Ile Met Asn Lys Met Lys Asn Phe Lys Arg Arg Phe Ser Leu
 1 5 10 15
 Ser Val Pro Arg Thr Glu Thr Ile Glu Glu Ser Leu Ala Glu Phe
 20 25 30
 Thr Glu Gln Phe Asn Gln Leu His Asn Arg Arg Asn Glu Asn Leu
 35 40 45
 Gln Leu Gly Pro Leu Gly Arg Asp Pro Pro Gln Glu Cys Ser Thr
 50 55 60
 Phe Ser Pro Thr Asp Ser Gly Glu Glu Pro Gly Gln Leu Ser Pro
 65 70 75
 Gly Val Gln Phe Gln Arg Arg Gln Asn Gln Arg Arg Phe Ser Met
 80 85 90
 Glu Asp Val Ser Lys Arg Leu Ser Leu Pro Met Asp Ile Arg Leu
 95 100 105
 Pro Gln Glu Phe Leu Gln Lys Leu Gln Met Glu Ser Pro Asp Leu
 110 115 120
 Pro Lys Pro Leu Ser Arg Met Ser Arg Arg Ala Ser Leu Ser Asp
 125 130 135
 Ile Gly Phe Gly Lys Leu Glu Thr Tyr Val Lys Leu Asp Lys Leu
 140 145 150
 Gly Glu Gly Thr Tyr Ala Thr Val Phe Lys Gly Arg Ser Lys Leu
 155 160 165
 Thr Glu Asn Leu Val Ala Leu Lys Glu Ile Arg Leu Glu His Glu
 170 175 180
 Glu Gly Ala Pro Cys Thr Ala Ile Arg Glu Val Ser Leu Leu Lys
 185 190 195
 Asn Leu Lys His Ala Asn Ile Val Thr Leu His Asp Leu Ile His
 200 205 210
 Thr Asp Arg Ser Leu Thr Leu Val Phe Glu Tyr Leu Asp Ser Asp
 215 220 225
 Leu Lys Gln Tyr Leu Asp His Cys Gly Asn Leu Met Ser Met His
 230 235 240
 Asn Val Lys Ile Phe Met Phe Gln Leu Leu Arg Gly Leu Ala Tyr
 245 250 255
 Cys His His Arg Lys Ile Leu His Arg Asp Leu Lys Pro Gln Asn
 260 265 270
 Leu Leu Ile Asn Glu Arg Gly Glu Leu Lys Leu Ala Asp Phe Gly
 275 280 285

Leu	Ala	Arg	Ala	Lys	Ser	Val	Pro	Thr	Lys	Thr	Tyr	Ser	Asn	Glu
				290					295					300
Val	Val	Thr	Leu	Trp	Tyr	Arg	Pro	Pro	Asp	Val	Leu	Leu	Gly	Ser
				305					310					315
Thr	Glu	Tyr	Ser	Thr	Pro	Ile	Asp	Met	Trp	Gly	Val	Gly	Cys	Ile
				320					325					330
His	Tyr	Glu	Met	Ala	Thr	Gly	Arg	Pro	Leu	Phe	Pro	Gly	Ser	Thr
				335					340					345
Val	Lys	Glu	Glu	Leu	His	Leu	Ile	Phe	Arg	Leu	Leu	Gly	Thr	Pro
				350					355					360
Thr	Glu	Glu	Thr	Trp	Pro	Gly	Val	Thr	Ala	Phe	Ser	Glu	Phe	Arg
				365					370					375
Thr	Tyr	Ser	Phe	Pro	Cys	Tyr	Leu	Pro	Gln	Pro	Leu	Ile	Asn	His
				380					385					390
Ala	Pro	Arg	Leu	Asp	Thr	Asp	Gly	Ile	His	Leu	Leu	Ser	Ser	Leu
				395					400					405
Leu	Leu	Tyr	Glu	Ser	Lys	Ser	Arg	Met	Ser	Ala	Glu	Ala	Ala	Leu
				410					415					420
Ser	His	Ser	Tyr	Phe	Arg	Ser	Leu	Gly	Glu	Arg	Val	His	Gln	Leu
				425					430					435
Glu	Asp	Thr	Ala	Ser	Ile	Phe	Ser	Leu	Lys	Glu	Ile	Gln	Leu	Gln
				440					445					450
Lys	Asp	Pro	Gly	Tyr	Arg	Gly	Leu	Ala	Phe	Gln	Gln	Pro	Gly	Arg
				455					460					465
Gly	Lys	Asn	Arg	Arg	Gln	Ser	Ile	Phe						
				470										

<210> 6

<211> 540

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte Clone Number: 156108

<400> 6

Met	Asn	Gly	Glu	Ala	Ile	Cys	Ser	Ala	Leu	Pro	Thr	Ile	Pro	Tyr
1				5					10					15
His	Lys	Leu	Ala	Asp	Leu	Arg	Tyr	Leu	Ser	Arg	Gly	Ala	Ser	Gly
				20					25					30
Thr	Val	Ser	Ser	Ala	Arg	His	Ala	Asp	Trp	Arg	Val	Gln	Val	Ala
				35					40					45
Val	Lys	His	Leu	His	Ile	His	Thr	Pro	Leu	Leu	Asp	Ser	Glu	Arg
				50					55					60
Lys	Asp	Val	Leu	Arg	Glu	Ala	Glu	Ile	Leu	His	Lys	Ala	Arg	Phe
				65					70					75
Ser	Tyr	Ile	Leu	Pro	Ile	Leu	Gly	Ile	Cys	Asn	Glu	Pro	Glu	Phe
				80					85					90
Leu	Gly	Ile	Val	Thr	Glu	Tyr	Met	Pro	Asn	Gly	Ser	Leu	Asn	Glu
				95					100					105
Leu	Leu	His	Arg	Lys	Thr	Glu	Tyr	Pro	Asp	Val	Ala	Trp	Pro	Leu
				110					115					120
Arg	Phe	Arg	Ile	Leu	His	Glu	Ile	Ala	Leu	Gly	Val	Asn	Tyr	Leu

	125		130		135
His Asn Met Thr	Pro Pro Leu Leu His	His Asp Leu Lys Thr	Gln		
	140		145		150
Asn Ile Leu Leu	Asp Asn Glu Phe His	Val Lys Ile Ala Asp	Phe		
	155		160		165
Gly Leu Ser Lys	Trp Arg Met Met Ser	Leu Ser Gln Ser Arg	Ser		
	170		175		180
Ser Lys Ser Ala	Pro Glu Gly Gly Thr	Ile Ile Tyr Met Pro	Pro		
	185		190		195
Glu Asn Tyr Glu	Pro Gly Gln Lys Ser	Arg Ala Ser Ile Lys	His		
	200		205		210
Asp Ile Tyr Ser	Tyr Ala Val Ile Thr	Trp Glu Val Leu Ser	Arg		
	215		220		225
Lys Gln Pro Phe	Glu Asp Val Thr Asn	Pro Leu Gln Ile Met	Tyr		
	230		235		240
Ser Val Ser Gln	Gly His Arg Pro Val	Ile Asn Glu Glu Ser	Leu		
	245		250		255
Pro Tyr Asp Ile	Pro His Arg Ala Arg	Met Ile Ser Leu Ile	Glu		
	260		265		270
Ser Gly Trp Ala	Gln Asn Pro Asp Glu	Arg Pro Ser Phe Leu	Lys		
	275		280		285
Cys Leu Ile Glu	Leu Glu Pro Val Leu	Arg Thr Phe Glu Glu	Ile		
	290		295		300
Thr Phe Leu Glu	Ala Val Ile Gln Leu	Lys Lys Thr Lys Leu	Gln		
	305		310		315
Ser Val Ser Ser	Ala Ile His Leu Cys	Asp Lys Lys Lys Met	Glu		
	320		325		330
Leu Ser Leu Asn	Ile Pro Val Asn His	Gly Pro Gln Glu Glu	Ser		
	335		340		345
Cys Gly Ser Ser	Gln Leu His Glu Asn	Ser Gly Ser Pro Glu	Thr		
	350		355		360
Ser Arg Ser Leu	Pro Ala Pro Gln Asp	Asn Asp Phe Leu Ser	Arg		
	365		370		375
Lys Ala Gln Asp	Cys Tyr Phe Met Lys	Leu His His Cys Pro	Gly		
	380		385		390
Asn His Ser Trp	Asp Ser Thr Ile Ser	Gly Ser Gln Arg Ala	Ala		
	395		400		405
Phe Cys Asp His	Lys Thr Thr Pro Cys	Ser Ser Ala Ile Ile	Asn		
	410		415		420
Pro Leu Ser Thr	Ala Gly Asn Ser Glu	Arg Leu Gln Pro Gly	Ile		
	425		430		435
Ala Gln Gln Trp	Ile Gln Ser Lys Arg	Glu Asp Ile Val Asn	Gln		
	440		445		450
Met Thr Glu Ala	Cys Leu Asn Gln Ser	Leu Asp Ala Leu Leu	Ser		
	455		460		465
Arg Asp Leu Ile	Met Lys Glu Asp Tyr	Glu Leu Val Ser Thr	Lys		
	470		475		480
Pro Thr Arg Thr	Ser Lys Val Arg Gln	Leu Leu Asp Thr Thr	Asp		
	485		490		495
Ile Gln Gly Glu	Glu Phe Ala Lys Val	Ile Val Gln Lys Leu	Lys		
	500		505		510
Asp Asn Lys Gln	Met Gly Leu Gln Pro	Tyr Pro Glu Ile Leu	Val		
	515		520		525
Val Ser Arg Ser	Pro Ser Leu Asn Leu	Leu Gln Asn Lys Ser	Met		
	530		535		540

<210> 7
 <211> 454
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte Clone Number: 2883243

<400> 7
 Met Tyr Asn Thr Val Trp Asn Met Glu Asp Leu Asp Leu Glu Tyr
 1 5 10 15
 Ala Lys Thr Asp Ile Asn Cys Gly Thr Asp Leu Met Phe Tyr Ile
 20 25 30
 Glu Met Asp Pro Pro Ala Leu Pro Pro Lys Pro Pro Lys Pro Thr
 35 40 45
 Thr Val Ala Asn Asn Gly Met Asn Asn Asn Met Ser Leu Gln Asp
 50 55 60
 Ala Glu Trp Tyr Trp Gly Asp Ile Ser Arg Glu Glu Val Asn Glu
 65 70 75
 Lys Leu Arg Asp Thr Ala Asp Gly Thr Phe Leu Val Arg Asp Ala
 80 85 90
 Ser Thr Lys Met His Gly Asp Tyr Thr Leu Thr Leu Arg Lys Gly
 95 100 105
 Gly Asn Asn Lys Leu Ile Lys Ile Phe His Arg Asp Gly Lys Tyr
 110 115 120
 Gly Phe Ser Asp Pro Leu Thr Phe Ser Ser Val Val Glu Leu Ile
 125 130 135
 Asn His Tyr Arg Asn Glu Ser Leu Ala Gln Tyr Asn Pro Lys Leu
 140 145 150
 Asp Val Lys Leu Leu Tyr Pro Val Ser Lys Tyr Gln Gln Asp Gln
 155 160 165
 Val Val Lys Glu Asp Asn Ile Glu Ala Val Gly Lys Lys Leu His
 170 175 180
 Glu Tyr Asn Thr Gln Phe Gln Glu Lys Ser Arg Glu Tyr Asp Arg
 185 190 195
 Leu Tyr Glu Glu Tyr Thr Arg Thr Ser Gln Glu Ile Gln Met Lys
 200 205 210
 Arg Thr Ala Ile Glu Ala Phe Asn Glu Thr Ile Lys Ile Phe Glu
 215 220 225
 Glu Gln Cys Gln Thr Gln Glu Arg Tyr Ser Lys Glu Tyr Ile Glu
 230 235 240
 Lys Phe Lys Arg Glu Gly Asn Glu Lys Glu Ile Gln Arg Ile Met
 245 250 255
 His Asn Tyr Asp Lys Leu Lys Ser Arg Ile Ser Glu Ile Ile Asp
 260 265 270
 Ser Arg Arg Arg Leu Glu Glu Asp Leu Lys Lys Gln Ala Ala Glu
 275 280 285
 Tyr Arg Glu Ile Asp Lys Arg Met Asn Ser Ile Lys Pro Asp Leu
 290 295 300
 Ile Gln Leu Arg Lys Thr Arg Asp Gln Tyr Leu Met Trp Leu Thr
 305 310 315
 Gln Lys Gly Val Arg Gln Lys Lys Leu Asn Glu Trp Leu Gly Asn
 320 325 330
 Glu Asn Thr Glu Asp Gln Tyr Ser Leu Val Glu Asp Asp Glu Asp
 335 340 345


```

Leu Pro His His Asp Glu Lys Thr Trp Asn Val Gly Ser Ser Asn
350 355 360
Arg Asn Lys Ala Glu Asn Leu Leu Arg Gly Lys Arg Asp Gly Thr
365 370 375
Phe Leu Val Arg Glu Ser Ser Lys Gln Gly Cys Tyr Ala Cys Ser
380 385 390
Val Val Val Asp Gly Glu Val Lys His Cys Val Ile Asn Lys Thr
395 400 405
Ala Thr Gly Tyr Gly Phe Ala Glu Pro Tyr Asn Leu Tyr Ser Ser
410 415 420
Leu Lys Glu Leu Val Leu His Tyr Gln His Thr Ser Leu Val Gln
425 430 435
His Asn Asp Ser Leu Asn Val Thr Leu Ala Tyr Pro Val Tyr Ala
440 445 450
Gln Gln Arg Arg

```

<210> 8

<211> 502

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte Clone Number: 3173355

<400> 8

```

Met Phe Gly Thr Leu Leu Leu Tyr Cys Phe Phe Leu Ala Thr Val
1 5 10 15
Pro Ala Leu Ala Glu Thr Gly Gly Glu Arg Gln Leu Ser Pro Glu
20 25 30
Lys Ser Glu Ile Trp Gly Pro Gly Leu Lys Ala Asp Val Val Leu
35 40 45
Pro Ala Arg Tyr Phe Tyr Ile Gln Ala Val Asp Thr Ser Gly Asn
50 55 60
Lys Phe Thr Ser Ser Pro Gly Glu Lys Val Phe Gln Val Lys Val
65 70 75
Ser Ala Pro Glu Glu Gln Phe Thr Arg Val Gly Val Gln Val Leu
80 85 90
Asp Arg Lys Asp Gly Ser Phe Ile Val Arg Tyr Arg Met Tyr Ala
95 100 105
Ser Tyr Lys Asn Leu Lys Val Glu Ile Lys Phe Gln Gly Gln His
110 115 120
Val Ala Lys Ser Pro Tyr Ile Leu Lys Gly Pro Val Tyr His Glu
125 130 135
Asn Cys Asp Cys Pro Leu Gln Asp Ser Ala Ala Trp Leu Arg Glu
140 145 150
Met Asn Cys Pro Glu Thr Ile Ala Gln Ile Gln Arg Asp Leu Ala
155 160 165
His Phe Pro Ala Val Asp Pro Glu Lys Ile Ala Val Glu Ile Pro
170 175 180
Lys Arg Phe Gly Gln Arg Gln Ser Leu Cys His Tyr Thr Leu Lys
185 190 195
Asp Asn Lys Val Tyr Ile Lys Thr His Gly Glu His Val Gly Phe
200 205 210
Arg Ile Phe Met Asp Ala Ile Leu Leu Ser Leu Thr Arg Lys Val

```

	215		220		225
Lys Met Pro Asp Val Glu Leu Phe Val Asn Leu Gly Asp Trp Pro					
	230		235		240
Leu Glu Lys Lys Lys Ser Asn Ser Asn Ile His Pro Ile Phe Ser					
	245		250		255
Trp Cys Gly Ser Thr Asp Ser Lys Asp Ile Val Met Pro Thr Tyr					
	260		265		270
Asp Leu Thr Asp Ser Val Leu Glu Thr Met Gly Arg Val Ser Leu					
	275		280		285
Asp Met Met Ser Val Gln Ala Asn Thr Gly Pro Pro Trp Glu Ser					
	290		295		300
Lys Asn Ser Thr Ala Val Trp Arg Gly Arg Asp Ser Arg Lys Glu					
	305		310		315
Arg Leu Glu Leu Val Lys Leu Ser Arg Lys His Pro Glu Leu Ile					
	320		325		330
Asp Ala Ala Phe Thr Asn Phe Phe Phe Phe Lys His Asp Glu Asn					
	335		340		345
Leu Tyr Gly Pro Ile Val Lys His Ile Ser Phe Phe Asp Phe Phe					
	350		355		360
Lys His Lys Tyr Gln Ile Asn Ile Asp Gly Thr Val Ala Ala Tyr					
	365		370		375
Arg Leu Pro Tyr Leu Leu Val Gly Asp Ser Val Val Leu Lys Gln					
	380		385		390
Asp Ser Ile Tyr Tyr Glu His Phe Tyr Asn Glu Leu Gln Pro Trp					
	395		400		405
Lys His Tyr Ile Pro Val Lys Ser Asn Leu Ser Asp Leu Leu Glu					
	410		415		420
Lys Leu Lys Trp Ala Lys Asp His Asp Glu Glu Ala Lys Lys Ile					
	425		430		435
Ala Lys Ala Gly Gln Glu Phe Ala Arg Asn Asn Leu Met Gly Asp					
	440		445		450
Asp Ile Phe Cys Tyr Tyr Phe Lys Leu Phe Gln Glu Tyr Ala Asn					
	455		460		465
Leu Gln Val Ser Glu Pro Gln Ile Arg Glu Gly Met Lys Arg Val					
	470		475		480
Glu Pro Gln Thr Glu Asp Asp Leu Phe Pro Cys Thr Cys His Arg					
	485		490		495
Lys Lys Thr Lys Asp Glu Leu					
	500				

<210> 9

<211> 282

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte Clone Number: 5116906

<400> 9

Met Trp Ala Cys Gly Val Ile Leu Tyr Ile Leu Leu Val Gly Tyr			
1	5	10	15
Pro Pro Phe Trp Asp Glu Asp Gln His Arg Leu Tyr Gln Gln Ile			
	20	25	30
Lys Ala Gly Ala Tyr Asp Phe Pro Ser Pro Glu Trp Asp Thr Val			
	35	40	45

Thr	Pro	Glu	Ala	Lys	Asp	Leu	Ile	Asn	Lys	Met	Leu	Thr	Ile	Asn	
				50					55					60	
Pro	Ala	Lys	Arg	Ile	Thr	Ala	Ser	Glu	Ala	Leu	Lys	His	Pro	Trp	
				65					70					75	
Ile	Cys	Gln	Arg	Ser	Thr	Val	Ala	Ser	Met	Met	His	Arg	Gln	Glu	
				80					85					90	
Thr	Val	Asp	Cys	Leu	Lys	Lys	Phe	Asn	Ala	Arg	Arg	Lys	Leu	Lys	
				95					100					105	
Gly	Ala	Ile	Leu	Thr	Thr	Met	Leu	Ala	Thr	Arg	Asn	Phe	Ser	Ala	
				110					115					120	
Ala	Lys	Ser	Leu	Leu	Lys	Lys	Pro	Asp	Gly	Val	Lys	Glu	Ser	Thr	
				125					130					135	
Glu	Ser	Ser	Asn	Thr	Thr	Ile	Glu	Asp	Glu	Asp	Val	Lys	Ala	Arg	
				140					145					150	
Lys	Gln	Glu	Ile	Ile	Lys	Val	Thr	Glu	Gln	Leu	Ile	Glu	Ala	Ile	
				155					160					165	
Asn	Asn	Gly	Asp	Phe	Glu	Ala	Tyr	Thr	Lys	Ile	Cys	Asp	Pro	Gly	
				170					175					180	
Leu	Thr	Ala	Phe	Glu	Pro	Glu	Ala	Leu	Gly	Asn	Leu	Val	Glu	Gly	
				185					190					195	
Met	Asp	Phe	His	Arg	Phe	Tyr	Phe	Glu	Asn	Ala	Leu	Ser	Lys	Ser	
				200					205					210	
Asn	Lys	Pro	Ile	His	Thr	Ile	Ile	Leu	Asn	Pro	His	Val	His	Leu	
				215					220					225	
Val	Gly	Asp	Asp	Ala	Ala	Cys	Ile	Ala	Tyr	Ile	Arg	Leu	Thr	Gln	
				230					235					240	
Tyr	Met	Asp	Gly	Ser	Gly	Met	Pro	Lys	Thr	Met	Gln	Ser	Glu	Glu	
				245					250					255	
Thr	Arg	Val	Trp	His	Arg	Arg	Asp	Gly	Lys	Trp	Gln	Asn	Val	His	
				260					265					270	
Phe	His	Arg	Ser	Gly	Ser	Pro	Thr	Val	Pro	Ile	Asn				
				275					280						

<210> 10

<211> 510

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte Clone Number: 940589

<400> 10

Met	Lys	Ala	Asp	Ile	Lys	Ile	Trp	Ile	Leu	Thr	Gly	Asp	Lys	Gln	
1				5					10					15	
Glu	Thr	Ala	Ile	Asn	Ile	Gly	His	Ser	Cys	Lys	Leu	Leu	Lys	Lys	
				20					25					30	
Asn	Met	Gly	Met	Ile	Val	Ile	Asn	Glu	Gly	Ser	Leu	Asp	Ser	Phe	
				35					40					45	
Ser	Asn	Thr	Gln	Asn	Ser	Arg	Lys	Glu	Ala	Val	Leu	Leu	Ala	Lys	
				50					55					60	
Met	Lys	His	Pro	Asn	Ile	Val	Ala	Phe	Lys	Glu	Ser	Phe	Glu	Ala	
				65					70					75	
Glu	Gly	His	Leu	Tyr	Ile	Val	Met	Glu	Tyr	Cys	Asp	Gly	Gly	Asp	
				80					85					90	

Leu	Met	Gln	Lys	Ile	Lys	Gln	Gln	Lys	Gly	Lys	Leu	Phe	Pro	Glu
				95					100					105
Asp	Met	Ile	Leu	Asn	Trp	Phe	Thr	Gln	Met	Cys	Leu	Gly	Val	Asn
				110					115					120
His	Ile	His	Lys	Lys	Arg	Val	Leu	His	Arg	Asp	Ile	Lys	Ser	Lys
				125					130					135
Asn	Ile	Phe	Leu	Thr	Gln	Asn	Gly	Lys	Val	Lys	Leu	Gly	Asp	Phe
				140					145					150
Gly	Ser	Ala	Arg	Leu	Leu	Ser	Asn	Pro	Met	Ala	Phe	Ala	Cys	Thr
				155					160					165
Tyr	Val	Gly	Thr	Pro	Tyr	Tyr	Val	Pro	Pro	Glu	Ile	Trp	Glu	Asn
				170					175					180
Leu	Pro	Tyr	Asn	Asn	Lys	Ser	Asp	Ile	Trp	Ser	Leu	Gly	Cys	Ile
				185					190					195
Leu	Tyr	Glu	Leu	Cys	Thr	Leu	Lys	His	Pro	Phe	Gln	Ala	Asn	Ser
				200					205					210
Trp	Lys	Asn	Leu	Ile	Leu	Lys	Val	Cys	Gln	Gly	Cys	Ile	Ser	Pro
				215					220					225
Leu	Pro	Ser	His	Tyr	Ser	Tyr	Glu	Leu	Gln	Phe	Leu	Val	Lys	Gln
				230					235					240
Met	Phe	Lys	Arg	Asn	Pro	Ser	His	Arg	Pro	Ser	Ala	Thr	Thr	Leu
				245					250					255
Leu	Ser	Arg	Gly	Ile	Val	Ala	Arg	Leu	Val	Gln	Lys	Cys	Leu	Pro
				260					265					270
Pro	Glu	Ile	Ile	Met	Glu	Tyr	Gly	Glu	Glu	Val	Leu	Glu	Glu	Ile
				275					280					285
Lys	Asn	Ser	Lys	His	Asn	Thr	Pro	Arg	Lys	Lys	Thr	Asn	Pro	Ser
				290					295					300
Arg	Ile	Arg	Ile	Ala	Leu	Gly	Asn	Glu	Ala	Ser	Thr	Val	Gln	Glu
				305					310					315
Glu	Glu	Gln	Asp	Arg	Lys	Gly	Ser	His	Thr	Asp	Leu	Glu	Ser	Ile
				320					325					330
Asn	Glu	Asn	Leu	Val	Glu	Ser	Ala	Leu	Arg	Arg	Val	Asn	Arg	Glu
				335					340					345
Glu	Lys	Gly	Asn	Lys	Ser	Val	His	Leu	Arg	Lys	Ala	Ser	Ser	Pro
				350					355					360
Asn	Leu	His	Arg	Arg	Gln	Trp	Glu	Lys	Asn	Val	Pro	Asn	Thr	Ala
				365					370					375
Leu	Thr	Ala	Leu	Glu	Asn	Ala	Ser	Ile	Leu	Thr	Ser	Ser	Leu	Thr
				380					385					390
Ala	Glu	Asp	Asp	Arg	Gly	Gly	Ser	Val	Ile	Lys	Tyr	Ser	Lys	Asn
				395					400					405
Thr	Thr	Arg	Lys	Gln	Trp	Leu	Lys	Glu	Thr	Pro	Asp	Thr	Leu	Leu
				410					415					420
Asn	Ile	Leu	Lys	Asn	Ala	Asp	Leu	Ser	Leu	Ala	Phe	Gln	Thr	Tyr
				425					430					435
Thr	Ile	Tyr	Arg	Pro	Gly	Ser	Glu	Gly	Phe	Leu	Lys	Gly	Pro	Leu
				440					445					450
Ser	Glu	Glu	Thr	Glu	Ala	Ser	Asp	Ser	Val	Asp	Gly	Gly	His	Asp
				455					460					465
Ser	Val	Ile	Leu	Asp	Pro	Glu	Arg	Leu	Glu	Pro	Gly	Leu	Asp	Glu
				470					475					480
Glu	Asp	Thr	Asp	Phe	Glu	Glu	Glu	Asp	Asp	Asn	Pro	Asp	Trp	Val
				485					490					495
Ser	Glu	Leu	Lys	Lys	Arg	Ala	Gly	Trp	Gln	Gly	Leu	Cys	Asp	Arg
				500					505					510

<210> 11
 <211> 248
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte Clone Number: 304421

<400> 11
 Met Ala Glu Thr Ser Leu Pro Glu Leu Gly Gly Glu Asp Lys Ala
 1 5 10 15
 Thr Pro Cys Pro Ser Ile Leu Glu Leu Glu Glu Leu Arg Ala
 20 25 30
 Gly Lys Ser Ser Cys Ser Arg Val Asp Glu Val Trp Pro Asn Leu
 35 40 45
 Phe Ile Gly Asp Ala Met Asp Ser Leu Gln Lys Gln Asp Leu Arg
 50 55 60
 Arg Pro Lys Ile His Gly Ala Val Gln Ala Ser Pro Tyr Gln Pro
 65 70 75
 Pro Thr Leu Ala Ser Leu Gln Arg Leu Leu Trp Val Arg Gln Ala
 80 85 90
 Ala Thr Leu Asn His Ile Asp Glu Val Trp Pro Ser Leu Phe Leu
 95 100 105
 Gly Asp Ala Tyr Ala Ala Arg Asp Lys Ser Lys Leu Ile Gln Leu
 110 115 120
 Gly Ile Thr His Val Val Asn Ala Ala Ala Gly Lys Phe Gln Val
 125 130 135
 Asp Thr Gly Ala Lys Phe Tyr Arg Gly Met Ser Leu Glu Tyr Tyr
 140 145 150
 Gly Ile Glu Ala Asp Asp Asn Pro Phe Phe Asp Leu Ser Val Tyr
 155 160 165
 Phe Leu Pro Val Ala Arg Tyr Ile Arg Ala Ala Leu Ser Val Pro
 170 175 180
 Gln Gly Arg Val Leu Val His Cys Ala Met Gly Val Ser Arg Ser
 185 190 195
 Ala Thr Leu Val Leu Ala Phe Leu Met Ile Tyr Glu Asn Met Thr
 200 205 210
 Leu Val Glu Ala Ile Gln Thr Val Gln Ala His Arg Asn Ile Cys
 215 220 225
 Pro Asn Ser Gly Phe Leu Arg Gln Leu Gln Val Leu Asp Asn Arg
 230 235 240
 Leu Gly Arg Glu Thr Gly Arg Phe
 245

<210> 12
 <211> 810
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte Clone Number: 1213802

<400> 12

Met	Pro	Asn	Gln	Gly	Glu	Asp	Cys	Tyr	Phe	Phe	Phe	Tyr	Ser	Thr
1				5					10					15
Cys	Thr	Lys	Gly	Asp	Ser	Cys	Pro	Phe	Arg	His	Cys	Glu	Ala	Ala
				20					25					30
Ile	Gly	Asn	Glu	Thr	Val	Cys	Thr	Leu	Trp	Gln	Glu	Gly	Arg	Cys
				35					40					45
Phe	Arg	Gln	Val	Cys	Arg	Phe	Arg	His	Met	Glu	Ile	Asp	Lys	Lys
				50					55					60
Arg	Ser	Glu	Ile	Pro	Cys	Tyr	Trp	Glu	Asn	Gln	Pro	Thr	Gly	Cys
				65					70					75
Gln	Lys	Leu	Asn	Cys	Ala	Phe	His	His	Asn	Arg	Gly	Arg	Tyr	Val
				80					85					90
Asp	Gly	Leu	Phe	Leu	Pro	Pro	Ser	Lys	Thr	Val	Leu	Pro	Thr	Val
				95					100					105
Pro	Glu	Ser	Pro	Glu	Glu	Glu	Val	Lys	Ala	Ser	Gln	Leu	Ser	Val
				110					115					120
Gln	Gln	Asn	Lys	Leu	Ser	Val	Gln	Ser	Asn	Pro	Ser	Pro	Gln	Leu
				125					130					135
Arg	Ser	Val	Met	Lys	Val	Glu	Ser	Ser	Glu	Asn	Val	Pro	Ser	Pro
				140					145					150
Thr	His	Pro	Pro	Val	Val	Ile	Asn	Ala	Ala	Asp	Asp	Asp	Glu	Asp
				155					160					165
Asp	Asp	Asp	Gln	Phe	Ser	Glu	Glu	Gly	Asp	Glu	Thr	Lys	Thr	Pro
				170					175					180
Thr	Leu	Gln	Pro	Thr	Pro	Glu	Val	His	Asn	Gly	Leu	Arg	Val	Thr
				185					190					195
Ser	Val	Arg	Lys	Pro	Ala	Val	Asn	Ile	Lys	Gln	Gly	Glu	Cys	Leu
				200					205					210
Asn	Phe	Gly	Ile	Lys	Thr	Leu	Glu	Glu	Ile	Lys	Ser	Lys	Lys	Met
				215					220					225
Lys	Glu	Lys	Ser	Lys	Lys	Gln	Gly	Glu	Gly	Ser	Ser	Gly	Val	Ser
				230					235					240
Ser	Leu	Leu	Leu	His	Pro	Glu	Pro	Val	Pro	Gly	Pro	Glu	Lys	Glu
				245					250					255
Asn	Val	Arg	Thr	Val	Val	Arg	Thr	Val	Thr	Leu	Ser	Thr	Lys	Gln
				260					265					270
Gly	Glu	Glu	Pro	Leu	Val	Arg	Leu	Ser	Leu	Thr	Glu	Arg	Leu	Gly
				275					280					285
Lys	Arg	Lys	Phe	Ser	Ala	Gly	Gly	Asp	Ser	Asp	Pro	Pro	Leu	Lys
				290					295					300
Arg	Ser	Leu	Ala	Gln	Arg	Leu	Gly	Lys	Lys	Val	Glu	Ala	Pro	Glu
				305					310					315
Thr	Asn	Ile	Asp	Lys	Thr	Pro	Lys	Lys	Ala	Gln	Val	Ser	Lys	Ser
				320					325					330
Leu	Lys	Glu	Arg	Leu	Gly	Met	Ser	Ala	Asp	Pro	Asp	Asn	Glu	Asp
				335					340					345
Ala	Thr	Asp	Lys	Val	Asn	Lys	Val	Gly	Glu	Ile	His	Val	Lys	Thr
				350					355					360
Leu	Glu	Glu	Ile	Leu	Leu	Glu	Arg	Ala	Ser	Gln	Lys	Arg	Gly	Glu
				365					370					375
Leu	Gln	Thr	Lys	Leu	Lys	Thr	Glu	Gly	Pro	Ser	Lys	Thr	Asp	Asp
				380					385					390
Ser	Thr	Ser	Gly	Ala	Arg	Ser	Ser	Ser	Thr	Ile	Arg	Ile	Lys	Thr
				395					400					405
Phe	Ser	Glu	Val	Leu	Ala	Glu	Lys	Lys	His	Arg	Gln	Gln	Glu	Ala

	410		415		420
Glu Arg Gln Lys	Ser Lys Lys Asp Thr	Thr Cys Ile Lys Leu Lys			
	425		430		435
Ile Asp Ser Glu	Ile Lys Lys Thr Val	Val Leu Pro Pro Ile Val			
	440		445		450
Ala Ser Arg Gly	Gln Ser Glu Glu Pro	Ala Gly Lys Thr Lys Ser			
	455		460		465
Met Gln Glu Val	His Ile Lys Thr Leu	Glu Glu Ile Lys Leu Glu			
	470		475		480
Lys Ala Leu Arg	Val Gln Gln Ser Ser	Glu Ser Ser Thr Ser Ser			
	485		490		495
Pro Ser Gln His	Glu Ala Thr Pro Gly	Ala Arg Arg Leu Leu Arg			
	500		505		510
Ile Thr Lys Arg	Thr Gly Met Lys Glu	Glu Lys Asn Leu Gln Glu			
	515		520		525
Gly Asn Glu Val	Asp Ser Gln Ser Ser	Ile Arg Thr Glu Ala Lys			
	530		535		540
Glu Ala Ser Gly	Glu Thr Thr Gly Val	Asp Ile Thr Lys Ile Gln			
	545		550		555
Val Lys Arg Cys	Glu Thr Met Arg Glu	Lys His Met Gln Lys Gln			
	560		565		570
Gln Glu Arg Glu	Lys Ser Val Leu Thr	Pro Leu Arg Gly Asp Val			
	575		580		585
Ala Ser Cys Asn	Thr Gln Val Ala Glu	Lys Pro Val Leu Thr Ala			
	590		595		600
Val Pro Gly Ile	Thr Arg His Leu Thr	Lys Arg Leu Pro Thr Lys			
	605		610		615
Ser Ser Gln Lys	Val Glu Val Glu Thr	Ser Gly Ile Gly Asp Ser			
	620		625		630
Leu Leu Asn Val	Lys Cys Ala Ala Gln	Thr Leu Glu Lys Arg Gly			
	635		640		645
Lys Ala Lys Pro	Lys Val Asn Val Lys	Pro Ser Val Val Lys Val			
	650		655		660
Val Ser Ser Pro	Lys Leu Ala Pro Lys	Arg Lys Ala Val Glu Met			
	665		670		675
His Ala Ala Val	Ile Ala Ala Val Lys	Pro Leu Ser Ser Ser Ser			
	680		685		690
Val Leu Gln Glu	Pro Pro Ala Lys Lys	Ala Ala Val Ala Val Val			
	695		700		705
Pro Leu Val Ser	Glu Asp Lys Ser Val	Thr Val Pro Glu Ala Glu			
	710		715		720
Asn Pro Arg Asp	Ser Leu Val Leu Pro	Pro Thr Gln Ser Ser Ser			
	725		730		735
Asp Ser Ser Pro	Pro Glu Val Ser Gly	Pro Ser Ser Ser Gln Met			
	740		745		750
Ser Met Lys Thr	Arg Arg Leu Ser Ser	Ala Ser Thr Gly Lys Pro			
	755		760		765
Pro Leu Ser Val	Glu Asp Asp Phe Glu	Lys Leu Ile Trp Glu Ile			
	770		775		780
Ser Gly Gly Lys	Leu Glu Ala Glu Ile	Asp Leu Asp Pro Gly Lys			
	785		790		795
Asp Glu Asp Asp	Leu Leu Leu Glu Leu	Ser Glu Met Ile Asp Ser			
	800		805		810

<210> 13

<211> 549

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte Clone Number: 1378134

<400> 13

```

Met Arg Arg Arg Ala Ser Asn Ala Ala Ala Ala Ala His Thr Ile
 1          5          10          15
Gly Gly Ser Lys His Thr Met Asn Asp His Leu His Val Gly Ser
          20          25          30
His Ala His Gly Gln Ile Gln Val Arg Gln Leu Phe Glu Asp Asn
          35          40          45
Ser Asn Lys Arg Thr Val Leu Thr Thr Gln Pro Asn Gly Leu Thr
          50          55          60
Thr Val Gly Lys Thr Gly Leu Pro Val Val Pro Glu Arg Gln Leu
          65          70          75
Asp Ser Ile His Arg Arg Gln Gly Ser Ser Thr Ser Leu Lys Ser
          80          85          90
Met Glu Gly Met Gly Lys Val Lys Ala Thr Pro Met Thr Pro Glu
          95          100          105
Gln Ala Met Lys Gln Tyr Met Gln Lys Leu Thr Ala Phe Glu His
          110          115          120
His Glu Ile Phe Ser Tyr Pro Glu Ile Tyr Phe Leu Gly Leu Asn
          125          130          135
Ala Lys Lys Arg Gln Gly Met Thr Gly Gly Pro Asn Asn Gly Gly
          140          145          150
Tyr Asp Asp Asp Gln Gly Ser Tyr Val Gln Val Pro His Asp His
          155          160          165
Val Ala Tyr Arg Tyr Glu Val Leu Lys Val Ile Gly Lys Gly Ser
          170          175          180
Phe Gly Gln Val Val Lys Ala Tyr Asp His Lys Val His Gln His
          185          190          195
Val Ala Leu Lys Met Val Arg Asn Glu Lys Arg Phe His Arg Gln
          200          205          210
Ala Ala Glu Glu Ile Arg Ile Leu Glu His Leu Arg Lys Gln Asp
          215          220          225
Lys Asp Asn Thr Met Asn Val Ile His Met Leu Glu Asn Phe Thr
          230          235          240
Phe Arg Asn His Ile Cys Met Thr Phe Glu Leu Leu Ser Met Asn
          245          250          255
Leu Tyr Glu Leu Ile Lys Lys Asn Lys Phe Gln Gly Phe Ser Leu
          260          265          270
Pro Leu Val Arg Lys Phe Ala His Ser Ile Leu Gln Cys Leu Asp
          275          280          285
Ala Leu His Lys Asn Arg Ile Ile His Cys Asp Leu Lys Pro Glu
          290          295          300
Asn Ile Leu Leu Lys Gln Gln Gly Arg Ser Gly Ile Lys Val Ile
          305          310          315
Asp Phe Gly Ser Ser Cys Tyr Glu His Gln Arg Val Tyr Thr Tyr
          320          325          330
Ile Gln Ser Arg Phe Tyr Arg Ala Pro Glu Val Ile Leu Gly Ala
          335          340          345
Arg Tyr Gly Met Pro Ile Asp Met Trp Ser Leu Gly Cys Ile Leu

```


350	355	360
Ala Glu Leu Leu Thr Gly Tyr Pro Leu	Leu Pro Gly Glu Asp Glu	
365	370	375
Gly Asp Gln Leu Ala Cys Met Ile Glu	Leu Leu Gly Met Pro Ser	
380	385	390
Gln Lys Leu Leu Asp Ala Ser Lys Arg	Ala Lys Asn Phe Val Ser	
395	400	405
Ser Lys Gly Tyr Pro Arg Tyr Cys Thr	Val Thr Thr Leu Ser Asp	
410	415	420
Gly Ser Val Val Leu Asn Gly Gly Arg	Ser Arg Arg Gly Lys Leu	
425	430	435
Arg Gly Pro Pro Glu Ser Arg Glu Trp	Gly Asn Ala Leu Lys Gly	
440	445	450
Cys Asp Asp Pro Leu Phe Leu Asp Phe	Leu Lys Gln Cys Leu Glu	
455	460	465
Trp Asp Pro Ala Val Arg Met Thr Pro	Gly Gln Ala Leu Arg His	
470	475	480
Pro Trp Leu Arg Arg Arg Leu Pro Lys	Pro Pro Thr Gly Glu Lys	
485	490	495
Thr Ser Val Lys Arg Ile Thr Glu Ser	Thr Gly Ala Ile Thr Ser	
500	505	510
Ile Ser Lys Leu Pro Pro Ser Ser	Ser Ala Ser Lys Leu Arg	
515	520	525
Thr Asn Leu Ala Gln Met Thr Asp Ala	Asn Gly Asn Ile Gln Gln	
530	535	540
Arg Thr Val Leu Pro Lys Leu Val Ser		
545		

<210> 14

<211> 416

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte Clone Number: 1490070

<400> 14

Met Met Pro Gln Leu Gln Phe Lys Asp	Ala Phe Trp Cys Arg Asp
1	5 10 15
Phe Thr Ala His Thr Gly Tyr Glu Val	Leu Leu Gln Arg Leu Leu
20	25 30
Asp Gly Arg Lys Met Cys Lys Asp Met	Val Glu Leu Leu Trp Gln
35	40 45
Arg Ala Gln Ala Glu Glu Arg Tyr Gly	Lys Glu Leu Val Gln Ile
50	55 60
Ala Arg Lys Ala Gly Gly Gln Thr Glu	Ile Asn Ser Leu Arg Ala
65	70 75
Ser Phe Asp Ser Leu Lys Gln Gln Met	Glu Asn Val Gly Ser Ser
80	85 90
His Ile Gln Leu Ala Leu Thr Leu Arg	Glu Glu Leu Arg Ser Leu
95	100 105
Glu Glu Phe Arg Glu Arg Gln Lys Glu	Gln Arg Lys Lys Tyr Glu
110	115 120
Ala Val Met Asp Arg Val Gln Lys Ser	Lys Leu Ser Leu Tyr Lys

	125		130		135
Lys Ala Met Glu Ser Lys Lys Thr Tyr		Glu Gln Lys Cys Arg Asp			
	140		145		150
Ala Asp Asp Ala Glu Gln Ala Phe Glu Arg Ile Ser Ala Asn Gly					
	155		160		165
His Gln Lys Gln Val Glu Lys Ser Gln Asn Lys Ala Arg Gln Cys					
	170		175		180
Lys Asp Ser Ala Thr Glu Ala Glu Arg Val Tyr Arg Gln Ser Ile					
	185		190		195
Ala Gln Leu Glu Lys Val Arg Ala Glu Trp Glu Gln Glu His Arg					
	200		205		210
Thr Thr Cys Glu Ala Phe Gln Leu Gln Glu Phe Asp Arg Leu Thr					
	215		220		225
Ile Leu Arg Asn Ala Leu Trp Val His Ser Asn Gln Leu Ser Met					
	230		235		240
Gln Cys Val Lys Asp Asp Glu Leu Tyr Glu Glu Val Arg Leu Thr					
	245		250		255
Leu Glu Gly Cys Ser Ile Asp Ala Asp Ile Asp Ser Phe Ile Gln					
	260		265		270
Ala Lys Ser Thr Gly Thr Glu Pro Pro Ala Pro Val Pro Tyr Gln					
	275		280		285
Asn Tyr Tyr Asp Arg Glu Val Thr Pro Leu Thr Ser Ser Pro Gly					
	290		295		300
Ile Gln Pro Ser Cys Gly Met Ile Lys Arg Phe Ser Gly Leu Leu					
	305		310		315
His Gly Ser Pro Lys Thr Thr Ser Leu Ala Ala Ser Ala Ala Ser					
	320		325		330
Thr Glu Thr Leu Thr Pro Thr Pro Glu Arg Asn Glu Gly Val Tyr					
	335		340		345
Thr Ala Ile Ala Val Gln Glu Ile Gln Gly Asn Pro Ala Ser Pro					
	350		355		360
Ala Gln Glu Tyr Arg Ala Leu Tyr Asp Tyr Thr Ala Gln Asn Pro					
	365		370		375
Asp Glu Leu Asp Leu Ser Ala Gly Asp Ile Leu Glu Val Ile Leu					
	380		385		390
Glu Gly Glu Asp Gly Trp Trp Thr Val Glu Arg Asn Gly Gln Arg					
	395		400		405
Gly Phe Val Pro Gly Ser Tyr Leu Glu Lys Leu					
	410		415		

<210> 15

<211> 425

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte Clone Number: 1997814

<400> 15

Met Glu Gln Gly Leu Glu Glu Glu Glu Glu Val Asp Pro Arg Ile		
1	5	10
Gln Gly Glu Leu Glu Lys Leu Asn Gln Ser Thr Asp Asp Ile Asn		
	20	25
Arg Arg Glu Thr Glu Leu Glu Asp Ala Arg Gln Lys Phe Arg Ser		
	35	40
		45

Val	Leu	Val	Glu	Ala	Thr	Val	Lys	Leu	Asp	Glu	Leu	Val	Lys	Lys	50	55	60
Ile	Gly	Lys	Ala	Val	Glu	Asp	Ser	Lys	Pro	Tyr	Trp	Glu	Ala	Arg	65	70	75
Arg	Val	Ala	Arg	Gln	Ala	Gln	Leu	Glu	Ala	Gln	Lys	Ala	Thr	Gln	80	85	90
Asp	Phe	Gln	Arg	Ala	Thr	Glu	Val	Leu	Arg	Ala	Ala	Lys	Glu	Thr	95	100	105
Ile	Ser	Leu	Ala	Glu	Gln	Arg	Leu	Leu	Glu	Asp	Asp	Lys	Arg	Gln	110	115	120
Phe	Asp	Ser	Ala	Trp	Gln	Glu	Met	Leu	Asn	His	Ala	Thr	Gln	Arg	125	130	135
Val	Met	Glu	Ala	Glu	Gln	Thr	Lys	Thr	Arg	Ser	Glu	Leu	Val	His	140	145	150
Lys	Glu	Thr	Ala	Ala	Arg	Tyr	Asn	Ala	Ala	Met	Gly	Arg	Met	Arg	155	160	165
Gln	Leu	Glu	Lys	Lys	Leu	Lys	Arg	Ala	Ile	Asn	Lys	Ser	Lys	Pro	170	175	180
Tyr	Phe	Glu	Leu	Lys	Ala	Lys	Tyr	Tyr	Val	Gln	Leu	Glu	Gln	Leu	185	190	195
Lys	Lys	Thr	Val	Asp	Asp	Leu	Gln	Ala	Lys	Leu	Thr	Leu	Ala	Lys	200	205	210
Gly	Glu	Tyr	Lys	Met	Ala	Leu	Lys	Asn	Leu	Glu	Met	Ile	Ser	Asp	215	220	225
Glu	Ile	His	Glu	Arg	Arg	Ser	Ser	Ala	Met	Gly	Pro	Arg	Gly		230	235	240
Cys	Gly	Val	Gly	Ala	Glu	Gly	Ser	Ser	Thr	Ser	Val	Glu	Asp	Leu	245	250	255
Pro	Gly	Ser	Lys	Pro	Glu	Pro	Asp	Ala	Ile	Ser	Val	Ala	Ser	Glu	260	265	270
Ala	Phe	Glu	Asp	Asp	Ser	Cys	Ser	Asn	Phe	Val	Ser	Glu	Asp	Asp	275	280	285
Ser	Glu	Thr	Gln	Ser	Val	Ser	Ser	Phe	Ser	Ser	Gly	Pro	Thr	Ser	290	295	300
Pro	Ser	Glu	Met	Pro	Asp	Gln	Phe	Pro	Ala	Val	Val	Arg	Pro	Gly	305	310	315
Ser	Leu	Asp	Leu	Pro	Ser	Pro	Val	Ser	Leu	Ser	Glu	Phe	Gly	Met	320	325	330
Met	Phe	Pro	Val	Leu	Gly	Pro	Arg	Ser	Glu	Cys	Ser	Gly	Ala	Ser	335	340	345
Ser	Pro	Glu	Cys	Glu	Val	Glu	Arg	Gly	Asp	Arg	Ala	Glu	Gly	Ala	350	355	360
Glu	Asn	Lys	Thr	Ser	Asp	Lys	Ala	Asn	Asn	Asn	Arg	Gly	Leu	Ser	365	370	375
Ser	Ser	Ser	Gly	Ser	Gly	Gly	Ser	Ser	Lys	Ser	Gln	Ser	Ser	Thr	380	385	390
Ser	Pro	Glu	Gly	Gln	Ala	Leu	Glu	Asn	Arg	Met	Lys	Gln	Leu	Ser	395	400	405
Leu	Gln	Cys	Ser	Lys	Gly	Arg	Asp	Gly	Ile	Ile	Ala	Asp	Ile	Lys	410	415	420
Met	Val	Gln	Ile	Gly											425		

<210> 16

<211> 1135

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte Clone Number: 2299715

<400> 16

```

Met Ala Asn Asp Ser Pro Ala Lys Ser Leu Val Asp Ile Asp Leu
  1              5              10              15
Ser Ser Leu Arg Asp Pro Ala Gly Ile Phe Glu Leu Val Glu Val
              20              25              30
Val Gly Asn Gly Thr Tyr Gly Gln Val Tyr Lys Gly Arg His Val
              35              40              45
Lys Thr Gly Gln Leu Ala Ala Ile Lys Val Met Asp Val Thr Glu
              50              55              60

Asp Glu Glu Glu Glu Ile Lys Leu Glu Ile Asn Met Leu Lys Lys
              65              70              75
Tyr Ser His His Arg Asn Ile Ala Thr Tyr Tyr Gly Ala Phe Ile
              80              85              90
Lys Lys Ser Pro Pro Gly His Asp Asp Gln Leu Trp Leu Val Met
              95              100             105
Glu Phe Cys Gly Ala Gly Ser Ile Thr Asp Leu Val Lys Asn Thr
              110             115             120
Lys Gly Asn Thr Leu Lys Glu Asp Trp Ile Ala Tyr Ile Ser Arg
              125             130             135
Glu Ile Leu Arg Gly Leu Ala His Leu His Ile His His Val Ile
              140             145             150
His Arg Asp Ile Lys Gly Gln Asn Val Leu Leu Thr Glu Asn Ala
              155             160             165
Gly Val Lys Leu Val Asp Phe Gly Val Ser Ala Gln Leu Asp Arg
              170             175             180
Thr Val Gly Arg Arg Asn Thr Phe Ile Gly Thr Pro Tyr Trp Met
              185             190             195
Ala Pro Glu Val Ile Ala Cys Asp Glu Asn Pro Asp Ala Thr Tyr
              200             205             210
Asp Tyr Arg Ser Asp Leu Trp Ser Cys Gly Ile Thr Ala Ile Glu
              215             220             225
Met Ala Glu Gly Ala Pro Pro Leu Cys Asp Met His Pro Met Arg
              230             235             240
Ala Leu Phe Leu Ile Pro Arg Asn Pro Pro Pro Arg Leu Lys Ser
              245             250             255
Lys Lys Trp Ser Lys Lys Phe Phe Ser Phe Ile Glu Gly Cys Leu
              260             265             270
Val Lys Asn Tyr Met Gln Arg Pro Ser Thr Glu Gln Leu Leu Lys
              275             280             285
His Pro Phe Ile Arg Asp Gln Pro Asn Glu Arg Gln Val Arg Ile
              290             295             300
Gln Leu Lys Asp His Ile Asp Arg Thr Arg Lys Lys Arg Gly Glu
              305             310             315
Lys Asp Glu Thr Glu Tyr Glu Tyr Ser Gly Ser Glu Glu Glu Glu
              320             325             330
Glu Glu Val Pro Glu Gln Glu Gly Glu Pro Ser Ser Ile Val Asn
              335             340             345
Val Pro Gly Glu Ser Thr Leu Arg Arg Asp Phe Leu Arg Leu Gln

```

	350		355		360
Gln Glu Asn Lys	Glu Arg Ser Glu Ala	Leu Arg Arg Gln Gln	Leu		
	365		370		375
Leu Gln Glu Gln	Gln Leu Arg Glu Gln	Glu Glu Tyr Lys Arg	Gln		
	380		385		390
Leu Leu Ala Glu	Arg Gln Lys Arg Ile	Glu Gln Gln Lys Glu	Gln		
	395		400		405
Arg Arg Arg Leu	Glu Glu Gln Gln Arg	Arg Glu Arg Glu Ala	Arg		
	410		415		420
Arg Gln Gln Glu	Arg Glu Gln Arg Arg	Arg Glu Gln Glu Glu	Lys		
	425		430		435
Arg Arg Leu Glu	Glu Leu Glu Arg Arg	Arg Lys Glu Glu Glu	Glu		
	440		445		450
Arg Arg Arg Ala	Glu Glu Lys Arg	Arg Val Glu Arg Glu	Gln		
	455		460		465
Glu Tyr Ile Arg	Arg Gln Leu Glu Glu	Gln Arg His Leu	Glu		
	470		475		480
Val Leu Gln Gln	Gln Leu Leu Gln Glu	Gln Ala Met Leu Leu	His		
	485		490		495
Asp His Arg Arg	Pro His Pro Gln His	Ser Gln Gln Pro Pro	Pro		
	500		505		510
Pro Gln Gln Glu	Arg Ser Lys Pro Ser	Phe His Ala Pro Glu	Pro		
	515		520		525
Lys Ala His Tyr	Glu Pro Ala Asp Arg	Ala Arg Glu Val Pro	Val		
	530		535		540
Arg Thr Thr Ser	Arg Ser Pro Val Leu	Ser Arg Arg Asp Ser	Pro		
	545		550		555
Leu Gln Gly Ser	Gly Gln Gln Asn Ser	Gln Ala Gly Gln Arg	Asn		
	560		565		570
Ser Thr Ser Ile	Glu Pro Arg Leu Leu	Trp Glu Arg Val Glu	Lys		
	575		580		585
Leu Val Pro Arg	Pro Gly Ser Gly Ser	Ser Ser Gly Ser Ser	Asn		
	590		595		600
Ser Gly Ser Gln	Pro Gly Ser His Pro	Gly Ser Gln Ser Gly	Ser		
	605		610		615
Gly Glu Arg Phe	Arg Val Arg Ser Ser	Ser Lys Ser Glu Gly	Ser		
	620		625		630
Pro Ser Gln Arg	Leu Glu Asn Ala Val	Lys Lys Pro Glu Asp	Lys		
	635		640		645
Lys Glu Val Phe	Arg Pro Leu Lys Pro	Ala Asp Leu Thr Ala	Leu		
	650		655		660
Ala Lys Glu Leu	Arg Ala Val Glu Asp	Val Arg Pro Pro His	Lys		
	665		670		675
Val Thr Asp Tyr	Ser Ser Ser Ser Glu	Glu Ser Gly Thr Thr	Asp		
	680		685		690
Glu Glu Asp Asp	Asp Val Glu Gln Glu	Gly Ala Asp Glu Ser	Thr		
	695		700		705
Ser Gly Pro Glu	Asp Thr Arg Ala Ala	Ser Ser Leu Asn Leu	Ser		
	710		715		720
Asn Gly Glu Thr	Glu Ser Val Lys Thr	Met Ile Val His Asp	Asp		
	725		730		735
Val Glu Ser Glu	Pro Ala Met Thr Pro	Ser Lys Glu Gly Thr	Leu		
	740		745		750
Ile Val Arg Gln	Thr Gln Ser Ala Ser	Ser Thr Leu Gln Lys	His		
	755		760		765
Lys Ser Ser Ser	Ser Phe Thr Pro Phe	Ile Asp Pro Arg Leu	Leu		

	770		775		780
Gln Ile Ser Pro	Ser Ser Gly Thr Thr	Val Thr Ser Val Val	Gly		
	785		790		795
Phe Ser Cys Asp	Gly Met Arg Pro Glu	Ala Ile Arg Gln Asp	Pro		
	800		805		810
Thr Arg Lys Gly	Ser Val Val Asn Val	Asn Pro Thr Asn Thr	Arg		
	815		820		825
Pro Gln Ser Asp	Thr Pro Glu Ile Arg	Lys Tyr Lys Lys Arg	Phe		
	830		835		840
Asn Ser Glu Ile	Leu Cys Ala Ala Leu	Trp Gly Val Asn Leu	Leu		
	845		850		855
Val Gly Thr Glu	Ser Gly Leu Met Leu	Leu Asp Arg Ser Gly	Gln		
	860		865		870
Gly Lys Val Tyr	Pro Leu Ile Asn Arg	Arg Arg Phe Gln Gln	Met		
	875		880		885
Asp Val Leu Glu	Gly Leu Asn Val Leu	Val Thr Ile Ser Gly	Lys		
	890		895		900
Lys Asp Lys Leu	Arg Val Tyr Tyr Leu	Ser Trp Leu Arg Asn	Lys		
	905		910		915
Ile Leu His Asn	Asp Pro Glu Val Glu	Lys Lys Gln Gly Trp	Thr		
	920		925		930
Thr Val Gly Asp	Leu Glu Gly Cys Val	His Tyr Lys Val Val	Lys		
	935		940		945
Tyr Glu Arg Ile	Lys Phe Leu Val Ile	Ala Leu Lys Ser Ser	Val		
	950		955		960
Glu Val Tyr Ala	Trp Ala Pro Lys Pro	Tyr His Lys Phe Met	Ala		
	965		970		975
Phe Lys Ser Phe	Gly Glu Leu Val His	Gly Ser Cys Ala Gly	Phe		
	980		985		990
His Ala Val Asp	Val Asp Ser Gly Ser	Val Tyr Asp Ile Tyr	Leu		
	995		1000		1005
Pro Thr His Ile	Gln Cys Ser Ile Lys	Pro His Ala Ile Ile	Ile		
	1010		1015		1020
Leu Pro Asn Thr	Asp Gly Met Glu Leu	Leu Val Cys Tyr Glu	Asp		
	1025		1030		1035
Glu Gly Val Tyr	Val Asn Thr Tyr Gly	Arg Ile Thr Lys Asp	Val		
	1040		1045		1050
Val Leu Gln Trp	Gly Glu Met Pro Thr	Ser Val Ala Tyr Ile	Arg		
	1055		1060		1065
Ser Asn Gln Thr	Met Gly Trp Gly Glu	Lys Ala Ile Glu Ile	Arg		
	1070		1075		1080
Ser Val Glu Thr	Gly His Leu Asp Gly	Val Phe Met His Lys	Arg		
	1085		1090		1095
Ala Gln Arg Leu	Lys Phe Leu Cys Glu	Arg Asn Asp Lys Val	Phe		
	1100		1105		1110
Phe Ala Ser Val	Arg Ser Gly Gly Ser	Ser Gln Val Tyr Phe	Met		
	1115		1120		1125
Thr Leu Gly Arg	Thr Ser Leu Leu Ser	Trp			
	1130		1135		

<210> 17

<211> 228

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte Clone Number: 209854

<400> 17

```

Met Pro Thr Asn Cys Ala Ala Ala Gly Cys Ala Thr Thr Tyr Asn
 1              5              10              15
Lys His Ile Asn Ile Ser Phe His Arg Phe Pro Leu Asp Pro Lys
              20              25              30
Arg Arg Lys Glu Trp Val Arg Leu Val Arg Arg Lys Asn Phe Val
              35              40              45
Pro Gly Lys His Thr Phe Leu Cys Ser Lys His Phe Glu Ala Ser
              50              55              60
Cys Phe Asp Leu Thr Gly Gln Thr Arg Arg Leu Lys Met Asp Ala
              65              70              75
Val Pro Thr Ile Phe Asp Phe Cys Thr His Ile Lys Ser Met Lys
              80              85              90
Leu Lys Ser Arg Asn Leu Leu Lys Lys Asn Asn Ser Cys Ser Pro
              95              100             105
Ala Gly Pro Ser Asn Leu Lys Ser Asn Ile Ser Ser Gln Gln Val
              110             115             120
Leu Leu Glu His Ser Tyr Ala Phe Arg Asn Pro Met Glu Ala Lys
              125             130             135
Lys Arg Ile Ile Lys Leu Glu Lys Glu Ile Ala Ser Leu Arg Arg
              140             145             150
Lys Met Lys Thr Cys Leu Gln Lys Glu Arg Arg Ala Thr Arg Arg
              155             160             165
Trp Ile Lys Ala Thr Cys Leu Val Lys Asn Leu Glu Ala Asn Ser
              170             175             180
Val Leu Pro Lys Gly Thr Ser Glu His Met Leu Pro Thr Ala Leu
              185             190             195
Ser Ser Leu Pro Leu Glu Asp Phe Lys Ile Leu Glu Gln Asp Gln
              200             205             210
Gln Asp Lys Thr Leu Leu Ser Leu Asn Leu Lys Gln Thr Lys Ser
              215             220             225
Thr Phe Ile

```

<210> 18

<211> 503

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte Clone Number: 1384286

<400> 18

```

Met Ala Thr Thr Val Thr Cys Thr Arg Phe Thr Asp Glu Tyr Gln
 1              5              10              15
Leu Tyr Glu Asp Ile Gly Lys Gly Ala Phe Ser Val Val Arg Arg
              20              25              30
Cys Val Lys Leu Cys Thr Gly His Glu Tyr Ala Ala Lys Ile Ile
              35              40              45
Asn Thr Lys Lys Leu Ser Ala Arg Asp His Gln Lys Leu Glu Arg

```

	50		55		60
Glu Ala Arg Ile	Cys Arg Leu Leu Lys	His Ser Asn Ile Val	Arg		
	65		70		75
Leu His Asp Ser	Ile Ser Glu Glu Gly	Phe His Tyr Leu Val	Phe		
	80		85		90
Asp Leu Val Thr	Gly Gly Glu Leu Phe	Glu Asp Ile Val Ala	Arg		
	95		100		105
Glu Tyr Tyr Ser	Glu Ala Asp Ala Ser	His Cys Ile Gln Gln	Ile		
	110		115		120
Leu Glu Ala Val	Leu His Cys His Gln	Met Gly Val Val His	Arg		
	125		130		135
Asp Leu Lys Pro	Glu Asn Leu Leu Leu	Ala Ser Lys Cys Lys	Gly		
	140		145		150
Ala Ala Val Lys	Leu Ala Asp Phe Gly	Leu Ala Ile Glu Val	Gln		
	155		160		165
Gly Asp Gln Gln	Ala Trp Phe Gly Phe	Ala Gly Thr Pro Gly	Tyr		
	170		175		180
Leu Ser Pro Glu	Val Leu Arg Lys Glu	Ala Tyr Gly Lys Pro	Val		
	185		190		195
Asp Ile Trp Ala	Cys Gly Val Ile Leu	Tyr Ile Leu Leu Val	Gly		
	200		205		210
Tyr Pro Pro Phe	Trp Asp Glu Asp Gln	His Lys Leu Tyr Gln	Gln		
	215		220		225
Ile Lys Ala Gly	Ala Tyr Asp Phe Pro	Ser Pro Glu Trp Asp	Thr		
	230		235		240
Val Thr Pro Glu	Ala Lys Asn Leu Ile	Asn Gln Met Leu Thr	Ile		
	245		250		255
Asn Pro Ala Lys	Arg Ile Thr Ala His	Glu Ala Leu Lys His	Pro		
	260		265		270
Trp Val Cys Gln	Arg Ser Thr Val Ala	Ser Met Met His Arg	Gln		
	275		280		285
Glu Thr Val Glu	Cys Leu Lys Lys Phe	Asn Ala Arg Arg Lys	Leu		
	290		295		300
Lys Gly Ala Ile	Leu Thr Thr Met Leu	Ala Thr Arg Asn Phe	Ser		
	305		310		315
Ala Ala Lys Ser	Leu Leu Asn Lys Lys	Ala Asp Gly Val Lys	Pro		
	320		325		330
His Thr Asn Ser	Thr Lys Asn Ser Ala	Ala Ala Thr Ser Pro	Lys		
	335		340		345
Gly Thr Leu Pro	Pro Ala Ala Leu Glu	Ser Ser Asp Ser Ala	Asn		
	350		355		360
Thr Thr Ile Glu	Asp Glu Asp Ala Lys	Ala Arg Lys Gln Glu	Ile		
	365		370		375
Ile Lys Thr Thr	Glu Gln Leu Ile Glu	Ala Val Asn Asn Gly	Asp		
	380		385		390
Phe Glu Ala Tyr	Ala Lys Ile Cys Asp	Pro Gly Leu Thr Ser	Phe		
	395		400		405
Glu Pro Glu Ala	Leu Gly Asn Leu Val	Glu Gly Met Asp Phe	His		
	410		415		420
Arg Phe Tyr Phe	Glu Asn Leu Leu Ala	Lys Asn Ser Lys Pro	Ile		
	425		430		435
His Thr Thr Ile	Leu Asn Pro His Val	His Val Ile Gly Glu	Asp		
	440		445		450
Ala Ala Cys Ile	Ala Tyr Ile Arg Leu	Thr Gln Tyr Ile Asp	Gly		
	455		460		465
Gln Gly Arg Pro	Arg Thr Ser Gln Ser	Glu Glu Thr Arg Val	Trp		

	470		475		480
His Arg Arg Asp	Gly Lys Trp Gln Asn	Val His Phe His Cys	Ser		
	485		490		495
Gly Ala Pro Val	Ala Pro Leu Gln				
	500				

<210> 19
 <211> 433
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte Clone Number: 1512656

<400> 19

Met Thr Gly Glu Ala Gln Ala Gly Arg Lys Arg Ser Arg Ala Arg		
1	5	10 15
Pro Glu Gly Thr Glu Pro Val Arg Arg Glu Arg Thr Gln Pro Gly		
	20	25 30
Leu Gly Pro Gly Arg Ala Arg Ala Met Ala Ala Glu Ala Thr Ala		
	35	40 45
Val Ala Gly Ser Gly Ala Val Gly Gly Cys Leu Ala Lys Asp Gly		
	50	55 60
Leu Gln Gln Ser Lys Cys Pro Asp Thr Thr Pro Lys Arg Arg Arg		
	65	70 75
Ala Ser Ser Leu Ser Arg Asp Ala Glu Arg Arg Ala Tyr Gln Trp		
	80	85 90
Cys Arg Glu Tyr Leu Gly Gly Ala Trp Arg Arg Val Gln Pro Glu		
	95	100 105
Glu Leu Arg Val Tyr Pro Val Ser Gly Gly Leu Ser Asn Leu Leu		
	110	115 120
Phe Arg Cys Ser Leu Pro Asp His Leu Pro Ser Val Gly Glu Glu		
	125	130 135
Pro Arg Glu Val Leu Leu Arg Leu Tyr Gly Ala Ile Leu Gln Gly		
	140	145 150
Val Asp Ser Leu Val Leu Glu Ser Val Met Phe Ala Ile Leu Ala		
	155	160 165
Glu Arg Ser Leu Gly Pro Gln Leu Tyr Gly Val Phe Pro Glu Gly		
	170	175 180
Arg Leu Glu Gln Tyr Ile Pro Ser Arg Pro Leu Lys Thr Gln Glu		
	185	190 195
Leu Arg Glu Pro Val Leu Ser Ala Ala Ile Ala Thr Lys Met Ala		
	200	205 210
Gln Phe His Gly Met Glu Met Pro Phe Thr Lys Glu Pro His Trp		
	215	220 225
Leu Phe Gly Thr Met Glu Arg Tyr Leu Lys Gln Ile Gln Asp Leu		
	230	235 240
Pro Pro Thr Gly Leu Pro Glu Met Asn Leu Leu Glu Met Tyr Ser		
	245	250 255
Leu Lys Asp Glu Met Gly Asn Leu Arg Lys Leu Leu Glu Ser Thr		
	260	265 270
Pro Ser Pro Val Val Phe Cys His Asn Asp Ile Gln Glu Gly Asn		

Ile	Leu	Leu	Leu	Ser	Glu	Pro	Glu	Asn	Ala	Asp	Ser	Leu	Met	Leu	275	280	285
Val	Asp	Phe	Glu	Tyr	Ser	Ser	Tyr	Asn	Tyr	Arg	Gly	Phe	Asp	Ile	290	295	300
Gly	Asn	His	Phe	Cys	Glu	Trp	Val	Tyr	Asp	Tyr	Thr	His	Glu	Glu	305	310	315
Trp	Pro	Phe	Tyr	Lys	Ala	Arg	Pro	Thr	Asp	Tyr	Pro	Thr	Gln	Glu	320	325	330
Gln	Gln	Leu	His	Phe	Ile	Arg	His	Tyr	Leu	Ala	Glu	Ala	Lys	Lys	335	340	345
Gly	Glu	Thr	Leu	Ser	Gln	Glu	Glu	Gln	Arg	Lys	Leu	Glu	Glu	Asp	350	355	360
Leu	Leu	Val	Glu	Val	Ser	Arg	Tyr	Ala	Leu	Ala	Ser	His	Phe	Phe	365	370	375
Trp	Gly	Leu	Trp	Ser	Ile	Leu	Gln	Ala	Ser	Met	Ser	Thr	Ile	Glu	380	385	390
Phe	Gly	Tyr	Leu	Asp	Tyr	Ala	Gln	Ser	Arg	Phe	Gln	Phe	Tyr	Phe	395	400	405
Gln	Gln	Lys	Gly	Gln	Leu	Thr	Ser	Val	His	Ser	Ser	Ser			410	415	420
															425	430	

<210> 20

<211> 527

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte Clone Number: 2098635

<400> 20

Met	Ser	Leu	Cys	Gly	Ala	Arg	Ala	Asn	Ala	Lys	Met	Met	Ala	Ala	1	5	10	15
Tyr	Asn	Gly	Gly	Thr	Ser	Ala	Ala	Ala	Ala	Gly	His	His	His	His	20	25	30	35
His	His	His	His	Leu	Pro	His	Leu	Pro	Pro	Pro	His	Leu	Leu	His	40	45	50	55
His	His	His	Pro	Gln	His	His	Leu	His	Pro	Gly	Ser	Ala	Ala	Ala	60	65	70	75
Val	His	Pro	Val	Gln	Gln	His	Thr	Ser	Ser	Ala	Ala	Ala	Ala	Ala	80	85	90	95
Ala	Ala	Ala	Ala	Ala	Ala	Ala	Ala	Met	Leu	Asn	Pro	Gly	Gln	Gln	100	105	110	115
Gln	Pro	Tyr	Phe	Pro	Ser	Pro	Ala	Pro	Gly	Gln	Ala	Pro	Gly	Pro	120	125	130	135
Ala	Ala	Ala	Ala	Pro	Ala	Gln	Val	Gln	Ala	Ala	Ala	Ala	Ala	Thr	140	145	150	155
Val	Val	Trp	Ser	Val	Thr	Asp	Pro	Arg	Asp	Gly	Lys	Arg	Val	Ala	160	165	170	175
Leu	Lys	Lys	Met	Pro	Asn	Val	Phe	Gln	Asn	Leu	Val	Ser	Cys	Lys				

Arg Val Phe Arg	170	175	180
Glu Leu Lys Met Leu		Cys Phe Phe Lys His	Asp
185		190	195
Asn Val Leu Ser	Ala Leu Asp Ile Leu	Gln Pro Pro His Ile	Asp
200		205	210
Tyr Phe Glu Glu	Ile Tyr Val Val Thr	Glu Leu Met Gln Ser	Asp
215		220	225
Leu His Lys Ile	Ile Val Ser Pro Gln	Pro Leu Ser Ser Asp	His
230		235	240
Val Lys Val Phe	Leu Tyr Gln Ile Leu	Arg Gly Leu Lys Tyr	Leu
245		250	255
His Ser Ala Gly	Ile Leu His Arg Asp	Ile Lys Pro Gly Asn	Leu
260		265	270
Leu Val Asn Ser	Asn Cys Val Leu Lys	Ile Cys Asp Phe Gly	Leu
275		280	285
Ala Arg Val Glu	Glu Leu Asp Glu Ser	Arg His Met Thr Gln	Glu
290		295	300
Val Val Thr Gln	Tyr Tyr Arg Ala Pro	Glu Ile Leu Met Gly	Ser
305		310	315
Arg His Tyr Ser	Asn Ala Ile Asp Ile	Trp Ser Val Gly Cys	Ile
320		325	330
Phe Ala Glu Leu	Gly Arg Arg Ile	Leu Phe Gln Ala Gln	Ser
335		340	345
Pro Ile Gln Gln	Leu Asp Leu Ile Thr	Asp Leu Leu Gly Thr	Pro
350		355	360
Ser Leu Glu Ala	Met Arg Thr Ala Cys	Glu Gly Ala Lys Ala	His
365		370	375
Ile Leu Arg Gly	Pro His Lys Gln Pro	Ser Leu Pro Val Leu	Tyr
380		385	390
Thr Leu Ser Ser	Gln Ala Thr His Glu	Ala Val His Leu Leu	Cys
395		400	405
Arg Met Leu Val	Phe Asp Pro Ser Lys	Arg Ile Ser Ala Lys	Asp
410		415	420
Ala Leu Ala His	Pro Tyr Leu Asp Glu	Gly Arg Leu Arg Tyr	His
425		430	435
Thr Cys Met Cys	Lys Cys Cys Phe Ser	Thr Ser Thr Gly Arg	Val
440		445	450
Tyr Thr Ser Asp	Phe Glu Pro Val Thr	Asn Pro Lys Phe Asp	Asp
455		460	465
Thr Phe Glu Lys	Asn Leu Ser Ser Val	Arg Gln Val Lys Glu	Ile
470		475	480
Ile His Gln Phe	Ile Leu Glu Gln Gln	Lys Gly Asn Arg Val	Pro
485		490	495
Leu Cys Ile Asn	Pro Gln Ser Ala Ala	Phe Lys Ser Phe Ile	Ser
500		505	510
Ser Thr Val Ala	Gln Pro Ser Glu Met	Pro Pro Ser Pro Leu	Val
515		520	525
Trp Glu			

<210> 21

<211> 322

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte Clone Number: 2446646

<400> 21

```

Met Glu Gly Ile Ser Asn Phe Lys Thr Pro Ser Lys Leu Ser Glu
  1          5          10          15
Lys Lys Lys Ser Val Leu Cys Ser Thr Pro Thr Ile Asn Ile Pro
          20          25          30
Ala Ser Pro Phe Met Gln Lys Leu Gly Phe Gly Thr Gly Val Asn
          35          40          45
Val Tyr Leu Met Lys Arg Ser Pro Arg Gly Leu Ser His Ser Pro
          50          55          60
Trp Ala Val Lys Lys Ile Asn Pro Ile Cys Asn Asp His Tyr Arg
          65          70          75
Ser Val Tyr Gln Lys Arg Leu Met Asp Glu Ala Lys Ile Leu Lys
          80          85          90
Ser Leu His His Pro Asn Ile Val Gly Tyr Arg Ala Phe Thr Glu
          95          100          105
Ala Asn Asp Gly Ser Leu Cys Leu Ala Met Glu Tyr Gly Gly Glu
          110          115          120
Lys Ser Leu Asn Asp Leu Ile Glu Glu Arg Tyr Lys Ala Ser Gln
          125          130          135
Asp Pro Phe Pro Ala Ala Ile Ile Leu Lys Val Ala Leu Asn Met
          140          145          150
Ala Arg Gly Leu Lys Tyr Leu His Gln Glu Lys Lys Leu Leu His
          155          160          165
Gly Asp Ile Lys Ser Ser Asn Val Val Ile Lys Gly Asp Phe Glu
          170          175          180
Thr Ile Lys Ile Cys Asp Val Gly Val Ser Leu Pro Leu Asp Glu
          185          190          195
Asn Met Thr Val Thr Asp Pro Glu Ala Cys Tyr Ile Gly Thr Glu
          200          205          210
Pro Trp Lys Pro Lys Glu Ala Val Glu Glu Asn Gly Val Ile Thr
          215          220          225
Asp Lys Ala Asp Ile Phe Ala Phe Gly Leu Thr Leu Trp Glu Met
          230          235          240
Met Thr Leu Ser Ile Pro His Ile Asn Leu Ser Asn Asp Asp Asp
          245          250          255
Asp Glu Asp Lys Thr Phe Asp Glu Ser Asp Phe Asp Asp Glu Ala
          260          265          270
Tyr Tyr Ala Ala Leu Gly Thr Arg Pro Pro Ile Asn Met Glu Glu
          275          280          285
Leu Asp Glu Ser Tyr Gln Lys Val Ile Glu Leu Phe Ser Val Cys
          290          295          300
Thr Asn Glu Asp Pro Lys Asp Arg Pro Ser Ala Ala His Ile Val
          305          310          315
Glu Ala Leu Glu Thr Asp Val
          320

```

<210> 22

<211> 802

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte Clone Number: 2764911

<400> 22

Met	Glu	Glu	Glu	Gly	Gly	Ser	Ser	Gly	Gly	Ala	Ala	Gly	Thr	Ser	1	5	10	15
Ala	Asp	Gly	Gly	Asp	Gly	Gly	Glu	Gln	Leu	Leu	Thr	Val	Lys	His	20	25	30	
Glu	Leu	Arg	Thr	Ala	Asn	Leu	Thr	Gly	His	Ala	Glu	Lys	Val	Gly	35	40	45	
Ile	Glu	Asn	Phe	Glu	Leu	Leu	Lys	Val	Leu	Gly	Thr	Gly	Ala	Tyr	50	55	60	
Gly	Lys	Val	Phe	Leu	Val	Arg	Lys	Ile	Ser	Gly	His	Asp	Thr	Gly	65	70	75	
Lys	Leu	Tyr	Ala	Met	Lys	Val	Leu	Lys	Lys	Ala	Thr	Ile	Val	Gln	80	85	90	
Lys	Ala	Lys	Thr	Thr	Glu	His	Thr	Arg	Thr	Glu	Arg	Gln	Val	Leu	95	100	105	
Glu	His	Ile	Arg	Gln	Ser	Pro	Phe	Leu	Val	Thr	Leu	His	Tyr	Ala	110	115	120	
Phe	Gln	Thr	Glu	Thr	Lys	Leu	His	Leu	Ile	Leu	Asp	Tyr	Ile	Asn	125	130	135	
Gly	Gly	Glu	Leu	Phe	Thr	His	Leu	Ser	Gln	Arg	Glu	Arg	Phe	Thr	140	145	150	
Glu	His	Glu	Val	Gln	Ile	Tyr	Val	Gly	Glu	Ile	Val	Leu	Ala	Leu	155	160	165	
Glu	His	Leu	His	Lys	Leu	Gly	Ile	Ile	Tyr	Arg	Asp	Ile	Lys	Leu	170	175	180	
Glu	Asn	Ile	Leu	Leu	Asp	Ser	Asn	Gly	His	Val	Val	Leu	Thr	Asp	185	190	195	
Phe	Gly	Leu	Ser	Lys	Glu	Phe	Val	Ala	Asp	Glu	Thr	Glu	Arg	Ala	200	205	210	
Tyr	Ser	Phe	Cys	Gly	Thr	Ile	Glu	Tyr	Met	Ala	Pro	Asp	Ile	Val	215	220	225	
Arg	Gly	Gly	Asp	Ser	Gly	His	Asp	Lys	Ala	Val	Asp	Trp	Trp	Ser	230	235	240	
Leu	Gly	Val	Leu	Met	Tyr	Glu	Leu	Leu	Thr	Gly	Ala	Ser	Pro	Phe	245	250	255	
Thr	Val	Asp	Gly	Glu	Lys	Asn	Ser	Gln	Ala	Glu	Ile	Ser	Arg	Arg	260	265	270	
Ile	Leu	Lys	Ser	Glu	Pro	Pro	Tyr	Pro	Gln	Glu	Met	Ser	Ala	Leu	275	280	285	
Ala	Lys	Asp	Leu	Ile	Gln	Arg	Leu	Leu	Met	Lys	Asp	Pro	Lys	Lys	290	295	300	
Arg	Leu	Gly	Cys	Gly	Pro	Arg	Asp	Ala	Asp	Glu	Ile	Lys	Glu	His	305	310	315	
Leu	Phe	Phe	Gln	Lys	Ile	Asn	Trp	Asp	Asp	Leu	Ala	Ala	Lys	Lys	320	325	330	
Val	Pro	Ala	Pro	Phe	Lys	Pro	Val	Ile	Arg	Asp	Glu	Leu	Asp	Val	335	340	345	
Ser	Asn	Phe	Ala	Glu	Glu	Phe	Thr	Glu	Met	Asp	Pro	Thr	Tyr	Ser	350	355	360	
Pro	Ala	Ala	Leu	Pro	Gln	Ser	Ser	Glu	Lys	Leu	Phe	Gln	Gly	Tyr	365	370	375	
Ser	Phe	Val	Ala	Pro	Ser	Ile	Leu	Phe	Lys	Arg	Asn	Ala	Ala	Val	380	385	390	
Ile	Asp	Pro	Leu	Gln	Phe	His	Met	Gly	Val	Glu	Arg	Pro	Gly	Val				

	395		400		405
Thr Asn Val Ala	Arg Ser Ala Met Met	Lys Asp Ser Pro Phe Tyr			
	410		415		420
Gln His Tyr Asp	Leu Asp Leu Lys Asp	Lys Pro Leu Gly Glu Gly			
	425		430		435
Ser Phe Ser Ile	Cys Arg Lys Cys Val	His Lys Lys Ser Asn Gln			
	440		445		450
Ala Phe Ala Val	Lys Ile Ile Ser Lys	Arg Met Glu Ala Asn Thr			
	455		460		465
Gln Lys Glu Ile	Thr Ala Leu Glu Leu	Cys Glu Gly His Pro Asn			
	470		475		480
Ile Val Lys Leu	His Glu Val Phe His	Asp Gln Leu His Thr Phe			
	485		490		495
Leu Val Met Glu	Leu Leu Asn Gly Gly	Glu Leu Phe Glu Arg Ile			
	500		505		510
Lys Lys Lys Lys	His Phe Ser Glu Thr	Glu Ala Ser Tyr Ile Met			
	515		520		525
Arg Lys Leu Val	Ser Ala Val Ser His	Met His Asp Val Gly Val			
	530		535		540
Val His Arg Asp	Leu Lys Pro Glu Asn	Leu Leu Phe Thr Asp Glu			
	545		550		555
Asn Asp Asn Leu	Glu Ile Lys Ile Ile	Asp Phe Gly Phe Ala Arg			
	560		565		570
Leu Lys Pro Pro	Asp Asn Gln Pro Leu	Lys Thr Pro Cys Phe Thr			
	575		580		585
Leu His Tyr Ala	Ala Pro Glu Leu Leu	Asn Gln Asn Gly Tyr Asp			
	590		595		600
Glu Ser Cys Asp	Leu Trp Ser Leu Gly	Val Ile Leu Tyr Thr Met			
	605		610		615
Leu Ser Gly Gln	Val Pro Phe Gln Ser	His Asp Arg Ser Leu Thr			
	620		625		630
Cys Thr Ser Ala	Val Glu Ile Met Lys	Lys Ile Lys Lys Gly Asp			
	635		640		645
Phe Ser Phe Glu	Gly Glu Ala Trp Lys	Asn Val Ser Gln Glu Ala			
	650		655		660
Lys Asp Leu Ile	Gln Gly Leu Leu Thr	Val Asp Pro Asn Lys Arg			
	665		670		675
Leu Lys Met Ser	Gly Leu Arg Tyr Asn	Glu Trp Leu Gln Asp Gly			
	680		685		690
Ser Gln Leu Ser	Ser Asn Pro Leu Met	Thr Pro Asp Ile Leu Gly			
	695		700		705
Ser Ser Gly Ala	Ala Val His Thr Cys	Val Lys Ala Thr Phe His			
	710		715		720
Ala Phe Asn Lys	Tyr Lys Arg Glu Gly	Phe Cys Leu Gln Asn Val			
	725		730		735
Asp Lys Ala Pro	Leu Ala Lys Arg Arg	Lys Met Lys Lys Thr Ser			
	740		745		750
Thr Ser Thr Glu	Thr Arg Ser Ser Ser	Ser Glu Ser Ser His Ser			
	755		760		765
Ser Ser Ser His	Ser His Gly Lys Thr	Thr Pro Thr Lys Thr Leu			
	770		775		780
Gln Pro Ser Asn	Pro Ala Asp Ser Asn	Asn Pro Glu Thr Leu Phe			
	785		790		795
Gln Phe Ser Asp	Ser Val Ala				
	800				

<210> 23
 <211> 641
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte Clone Number: 3013946

<400> 23
 Met Ala Thr Thr Val Thr Cys Thr Arg Phe Thr Asp Glu Tyr Gln
 1 5 10 15
 Leu Tyr Glu Asp Ile Gly Lys Gly Ala Phe Ser Val Val Arg Arg
 20 25 30
 Cys Val Lys Leu Cys Thr Gly His Glu Tyr Ala Ala Lys Ile Ile
 35 40 45
 Asn Thr Lys Lys Leu Ser Ala Arg Asp His Gln Lys Leu Glu Arg
 50 55 60
 Glu Ala Arg Ile Cys Arg Leu Leu Lys His Ser Asn Ile Val Arg
 65 70 75
 Leu His Asp Ser Ile Ser Glu Glu Gly Phe His Tyr Leu Val Phe
 80 85 90
 Asp Leu Val Thr Gly Gly Glu Leu Phe Glu Asp Ile Val Ala Arg
 95 100 105
 Glu Tyr Tyr Ser Glu Ala Asp Ala Ser His Cys Ile Gln Gln Ile
 110 115 120
 Leu Glu Ala Val Leu His Cys His Gln Met Gly Val Val His Arg
 125 130 135
 Asp Leu Lys Pro Glu Asn Leu Leu Leu Ala Ser Lys Cys Lys Gly
 140 145 150
 Ala Ala Val Lys Leu Ala Asp Phe Gly Leu Ala Ile Glu Val Gln
 155 160 165
 Gly Asp Gln Gln Ala Trp Phe Gly Phe Ala Gly Thr Pro Gly Tyr
 170 175 180
 Leu Ser Pro Glu Val Leu Arg Lys Glu Ala Tyr Gly Lys Pro Val
 185 190 195
 Asp Ile Trp Ala Cys Gly Val Ile Leu Tyr Ile Leu Leu Val Gly
 200 205 210
 Tyr Pro Pro Phe Trp Asp Glu Asp Gln His Lys Leu Tyr Gln Gln
 215 220 225
 Ile Lys Ala Gly Ala Tyr Asp Phe Pro Ser Pro Glu Trp Asp Thr
 230 235 240
 Val Thr Pro Glu Ala Lys Asn Leu Ile Asn Gln Met Leu Thr Ile
 245 250 255
 Asn Pro Ala Lys Arg Ile Thr Ala His Glu Ala Leu Lys His Pro
 260 265 270
 Trp Val Cys Gln Arg Ser Thr Val Ala Ser Met Met His Arg Gln
 275 280 285
 Glu Thr Val Glu Cys Leu Lys Lys Phe Asn Ala Arg Arg Lys Leu
 290 295 300
 Lys Gly Ala Ile Leu Thr Thr Met Leu Ala Thr Arg Asn Phe Ser
 305 310 315
 Ala Lys Ser Leu Leu Asn Lys Lys Ala Asp Gly Val Lys Pro Gln
 320 325 330
 Thr Asn Ser Thr Lys Asn Ser Ala Ala Ala Thr Ser Pro Lys Gly
 335 340 345

Thr	Leu	Pro	Pro	Ala	Ala	Leu	Glu	Pro	Gln	Thr	Thr	Val	Ile	His
				350					355					360
Asn	Pro	Val	Asp	Gly	Ile	Lys	Glu	Ser	Ser	Asp	Ser	Ala	Asn	Thr
				365					370					375
Thr	Ile	Glu	Asp	Glu	Asp	Ala	Lys	Ala	Pro	Arg	Val	Pro	Asp	Ile
				380					385					390
Leu	Ser	Ser	Val	Arg	Arg	Gly	Ser	Gly	Ala	Pro	Glu	Ala	Glu	Gly
				395					400					405
Pro	Leu	Pro	Cys	Pro	Ser	Pro	Ala	Pro	Phe	Gly	Pro	Leu	Pro	Ala
				410					415					420
Pro	Ser	Pro	Arg	Ile	Ser	Asp	Ile	Leu	Asn	Ser	Val	Arg	Arg	Gly
				425					430					435
Ser	Gly	Thr	Pro	Glu	Ala	Glu	Gly	Pro	Leu	Ser	Ala	Gly	Pro	Pro
				440					445					450
Pro	Cys	Leu	Ser	Pro	Ala	Leu	Leu	Gly	Pro	Leu	Ser	Ser	Pro	Ser
				455					460					465
Pro	Arg	Ile	Ser	Asp	Ile	Leu	Asn	Ser	Val	Arg	Arg	Gly	Ser	Gly
				470					475					480
Thr	Pro	Glu	Ala	Lys	Gly	Pro	Ser	Pro	Val	Gly	Pro	Pro	Pro	Cys
				485					490					495
Pro	Ser	Pro	Thr	Ile	Pro	Gly	Pro	Leu	Pro	Thr	Pro	Ser	Arg	Lys
				500					505					510
Gln	Glu	Ile	Ile	Lys	Thr	Thr	Glu	Gln	Leu	Ile	Glu	Ala	Val	Asn
				515					520					525
Asn	Gly	Asp	Phe	Glu	Ala	Tyr	Ala	Lys	Ile	Cys	Asp	Pro	Gly	Leu
				530					535					540
Thr	Ser	Phe	Glu	Pro	Glu	Ala	Leu	Gly	Asn	Leu	Val	Glu	Gly	Met
				545					550					555
Asp	Phe	His	Arg	Phe	Tyr	Phe	Glu	Asn	Leu	Leu	Ala	Lys	Asn	Ser
				560					565					570
Lys	Pro	Ile	His	Thr	Thr	Ile	Leu	Asn	Pro	His	Val	His	Val	Ile
				575					580					585
Gly	Glu	Asp	Ala	Ala	Cys	Ile	Ala	Tyr	Ile	Arg	Leu	Thr	Gln	Tyr
				590					595					600
Ile	Asp	Gly	Gln	Gly	Arg	Pro	Arg	Thr	Ser	Gln	Ser	Glu	Glu	Thr
				605					610					615
Arg	Val	Trp	His	Arg	Arg	Asp	Gly	Lys	Trp	Gln	Asn	Val	His	Phe
				620					625					630
His	Cys	Ser	Gly	Ala	Pro	Val	Ala	Pro	Leu	Gln				
				635					640					

<210> 24

<211> 588

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte Clone Number: 067967

<400> 24

Met	Gly	Gly	Thr	Ala	Arg	Gly	Pro	Gly	Arg	Lys	Asp	Ala	Gly	Pro
1				5					10					15
Pro	Gly	Ala	Gly	Leu	Pro	Pro	Gln	Gln	Arg	Arg	Leu	Gly	Asp	Gly
				20					25					30
Val	Tyr	Asp	Thr	Phe	Met	Met	Ile	Asp	Glu	Thr	Lys	Cys	Pro	Pro

	35		40		45
Cys Ser Asn Val	Leu Cys Asn Pro Ser	Glu Pro Pro Ser Pro Arg			
	50	55			60
Arg Leu Asn Met	Thr Thr Glu Gln Phe	Thr Gly Asp His Thr Gln			
	65	70			75
His Phe Leu Asp	Gly Gly Glu Met Lys	Val Glu Gln Leu Phe Gln			
	80	85			90
Glu Phe Gly Asn	Arg Lys Ser Asn Thr	Ile Gln Ser Asp Gly Ile			
	95	100			105
Ser Asp Ser Glu	Lys Cys Ser Pro Thr	Val Ser Gln Gly Lys Ser			
	110	115			120
Ser Asp Cys Leu	Asn Thr Val Lys Ser	Asn Ser Ser Ser Lys Ala			
	125	130			135
Pro Lys Val Val	Pro Leu Thr Pro Glu	Gln Ala Leu Lys Gln Tyr			
	140	145			150
Lys His His Leu	Thr Ala Tyr Glu Lys	Leu Glu Ile Ile Asn Tyr			
	155	160			165
Pro Glu Ile Tyr	Phe Val Gly Pro Asn	Ala Lys Lys Arg His Gly			
	170	175			180
Val Ile Gly Gly	Pro Asn Asn Gly Gly	Tyr Asp Asp Ala Asp Gly			
	185	190			195
Ala Tyr Ile His	Val Pro Arg Asp His	Leu Ala Tyr Arg Tyr Glu			
	200	205			210
Val Leu Lys Ile	Ile Gly Lys Gly Ser	Phe Gly Gln Val Ala Arg			
	215	220			225
Val Tyr Asp His	Lys Leu Arg Gln Tyr	Val Ala Leu Lys Met Val			
	230	235			240
Arg Asn Glu Lys	Arg Phe His Arg Gln	Ala Ala Glu Glu Ile Arg			
	245	250			255
Ile Leu Glu His	Leu Lys Lys Gln Asp	Lys Thr Gly Ser Met Asn			
	260	265			270
Val Ile His Met	Leu Glu Ser Phe Thr	Phe Arg Asn His Val Cys			
	275	280			285
Met Ala Phe Glu	Leu Leu Ser Ile Asp	Leu Tyr Glu Leu Ile Lys			
	290	295			300
Lys Asn Lys Phe	Gln Gly Phe Ser Val	Gln Leu Val Arg Lys Phe			
	305	310			315
Ala Gln Ser Ile	Leu Gln Ser Leu Asp	Ala Leu His Lys Asn Lys			
	320	325			330
Ile Ile His Cys	Asp Leu Lys Pro Glu	Asn Ile Leu Leu Lys His			
	335	340			345
His Gly Arg Ser	Ser Thr Lys Val Ile	Asp Phe Gly Ser Ser Cys			
	350	355			360
Phe Glu Tyr Gln	Lys Leu Tyr Thr Tyr	Ile Gln Ser Arg Phe Tyr			
	365	370			375
Arg Ala Pro Glu	Ile Ile Leu Gly Ser	Arg Tyr Ser Thr Pro Ile			
	380	385			390
Asp Ile Trp Ser	Phe Gly Cys Ile Leu	Ala Glu Leu Leu Thr Gly			
	395	400			405
Gln Pro Leu Phe	Pro Gly Glu Asp Glu	Gly Asp Gln Leu Ala Cys			
	410	415			420
Met Met Glu Leu	Leu Gly Met Pro Pro	Pro Lys Leu Leu Glu Gln			
	425	430			435
Ser Lys Arg Ala	Lys Tyr Phe Ile Asn	Ser Lys Gly Ile Pro Arg			
	440	445			450
Tyr Cys Ser Val	Thr Thr Gln Ala Asp	Gly Arg Val Val Leu Val			

	455		460		465
Gly Gly Arg Ser	Arg Arg Gly Lys Lys	Arg Gly Pro Pro Gly Ser			
	470		475		480
Lys Asp Trp Gly	Thr Ala Leu Lys Gly	Cys Asp Asp Tyr Leu Phe			
	485		490		495
Ile Glu Phe Leu	Lys Arg Cys Leu His	Trp Asp Pro Ser Ala Arg			
	500		505		510
Leu Thr Pro Ala	Gln Ala Leu Arg His	Pro Trp Ile Ser Lys Ser			
	515		520		525
Val Pro Arg Pro	Leu Thr Thr Ile Asp	Lys Val Ser Gly Lys Arg			
	530		535		540
Val Val Asn Pro	Ala Ser Ala Phe Gln	Gly Leu Gly Ser Lys Leu			
	545		550		555
Pro Pro Val Val	Gly Ile Ala Asn Lys	Leu Lys Ala Asn Leu Met			
	560		565		570
Ser Glu Thr Asn	Gly Ser Ile Pro Leu	Cys Ser Val Leu Pro Lys			
	575		580		585
Leu Ile Ser					

<210> 25

<211> 389

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte Clone Number: 346275

<400> 25

Met Ser Asp Val Cys Ser Ser Gln Arg Ala Glu His Glu His Leu		
1	5	10 15
Pro Gly Leu Val Pro Pro Pro Ser Gly Met Gly Val Arg Lys Gly		
	20	25 30
Ser Ser Pro Leu Lys Ser His Pro Cys Arg Glu Lys Ser Val Ser		
	35	40 45
Asn Arg Arg Ser Gly Lys Thr Ile Val Arg Ser Ala Val Glu Glu		
	50	55 60
Val Arg Thr Ala Gly Leu Phe Arg Ser Gly Phe Ser Glu Glu Lys		
	65	70 75
Ala Thr Gly Lys Leu Phe Ala Val Lys Cys Ile Pro Lys Lys Ala		
	80	85 90
Leu Lys Gly Lys Glu Ser Ser Ile Glu Asn Glu Ile Ala Val Leu		
	95	100 105
Arg Lys Ile Lys His Glu Asn Ile Val Ala Leu Glu Asp Ile Tyr		
	110	115 120
Glu Ser Pro Asn His Leu Tyr Leu Val Met Gln Leu Val Ser Gly		
	125	130 135
Gly Glu Leu Phe Asp Arg Ile Val Glu Lys Gly Phe Tyr Thr Glu		
	140	145 150
Lys Asp Ala Ser Thr Leu Ile Arg Gln Val Leu Asp Ala Val Tyr		
	155	160 165
Tyr Leu His Arg Met Gly Ile Val His Arg Asp Leu Lys Pro Glu		
	170	175 180
Asn Leu Leu Tyr Tyr Ser Gln Asp Glu Glu Ser Lys Ile Met Ile		
	185	190 195

Ser	Asp	Phe	Gly	Leu	Ser	Lys	Met	Glu	Gly	Lys	Gly	Asp	Val	Met
				200										210
Ser	Thr	Ala	Cys	Gly	Thr	Pro	Gly	Tyr	Val	Ala	Pro	Glu	Val	Leu
				215										225
Ala	Gln	Lys	Pro	Tyr	Ser	Lys	Ala	Val	Asp	Cys	Trp	Ser	Ile	Gly
				230										240
Val	Ile	Ala	Tyr	Ile	Leu	Leu	Cys	Gly	Tyr	Pro	Pro	Phe	Tyr	Asp
				245										255
Glu	Asn	Asp	Ser	Lys	Leu	Phe	Glu	Gln	Ile	Leu	Lys	Ala	Glu	Tyr
				260										270
Glu	Phe	Asp	Ser	Pro	Tyr	Trp	Asp	Asp	Ile	Ser	Asp	Ser	Ala	Lys
				275										285
Asp	Phe	Ile	Arg	Asn	Leu	Met	Glu	Lys	Asp	Pro	Asn	Lys	Arg	Tyr
				290										300
Thr	Cys	Glu	Gln	Ala	Ala	Arg	His	Pro	Trp	Ile	Ala	Gly	Asp	Thr
				305										315
Ala	Leu	Asn	Lys	Asn	Ile	His	Glu	Ser	Val	Ser	Ala	Gln	Ile	Arg
				320										330
Lys	Asn	Phe	Ala	Lys	Ser	Lys	Trp	Arg	Gln	Ala	Phe	Asn	Ala	Thr
				335										345
Ala	Val	Val	Arg	His	Met	Arg	Lys	Leu	His	Leu	Gly	Ser	Ser	Leu
				350										360
Asp	Ser	Ser	Asn	Ala	Ser	Val	Ser	Ser	Ser	Leu	Ser	Leu	Ala	Ser
				365										375
Gln	Lys	Asp	Cys	Ala	Tyr	Val	Ala	Lys	Pro	Glu	Ser	Leu	Ser	
				380										385

<210> 26

<211> 343

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte Clone Number: 283746

<400> 26

Met	Ile	Gly	Glu	Glu	Ala	Met	Ile	Asn	Tyr	Glu	Asn	Phe	Leu	Lys
1				5					10					15
Val	Gly	Glu	Lys	Ala	Gly	Ala	Lys	Cys	Lys	Gln	Phe	Phe	Thr	Ala
				20					25					30
Lys	Val	Phe	Ala	Lys	Leu	Leu	His	Thr	Asp	Ser	Tyr	Gly	Arg	Ile
				35					40					45
Ser	Ile	Met	Gln	Phe	Phe	Asn	Tyr	Val	Met	Arg	Lys	Val	Trp	Leu
				50					55					60
His	Gln	Thr	Arg	Ile	Gly	Leu	Ser	Leu	Tyr	Asp	Val	Ala	Gly	Gln
				65					70					75
Gly	Tyr	Leu	Arg	Glu	Ser	Asp	Leu	Glu	Asn	Tyr	Ile	Leu	Glu	Leu
				80					85					90
Ile	Pro	Thr	Leu	Pro	Gln	Leu	Asp	Gly	Leu	Glu	Lys	Ser	Phe	Tyr
				95					100					105
Ser	Phe	Tyr	Val	Cys	Thr	Ala	Val	Arg	Lys	Phe	Phe	Phe	Phe	Leu
				110					115					120
Asp	Pro	Leu	Arg	Thr	Gly	Lys	Ile	Lys	Ile	Gln	Asp	Ile	Leu	Ala
				125					130					135

```

Cys Ser Phe Leu Asp Asp Leu Leu Glu Leu Arg Asp Glu Glu Leu
140 145 150
Ser Lys Glu Ser Gln Glu Thr Asn Trp Phe Ser Ala Pro Ser Ala
155 160 165
Leu Arg Val Tyr Gly Gln Tyr Leu Asn Leu Asp Lys Asp His Asn
170 175 180
Gly Met Leu Ser Lys Glu Glu Leu Ser Arg Tyr Gly Thr Ala Thr
185 190 195
Met Thr Asn Val Phe Leu Asp Arg Val Phe Gln Glu Cys Leu Thr
200 205 210
Tyr Asp Gly Glu Met Asp Tyr Lys Thr Tyr Leu Asp Phe Val Leu
215 220 225
Ala Leu Glu Asn Arg Lys Glu Pro Ala Ala Leu Gln Tyr Ile Phe
230 235 240
Lys Leu Leu Asp Ile Glu Asn Lys Gly Tyr Leu Asn Val Phe Ser
245 250 255
Leu Asn Tyr Phe Phe Arg Ala Ile Gln Glu Leu Met Lys Ile His
260 265 270
Gly Gln Asp Pro Val Ser Phe Gln Asp Val Lys Asp Glu Ile Phe
275 280 285
Asp Met Val Lys Pro Lys Asp Pro Leu Lys Ile Ser Leu Gln Asp
290 295 300
Leu Ile Asn Ser Asn Gln Gly Asp Thr Val Thr Thr Ile Leu Ile
305 310 315
Asp Leu Asn Gly Phe Trp Thr Tyr Glu Asn Arg Glu Ala Leu Val
320 325 330
Ala Asn Asp Ser Glu Asn Ser Ala Asp Leu Asp Asp Thr
335 340

```

<210> 27

<211> 184

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte Clone Number: 2696537

<400> 27

```

Met Gly Asn Gly Met Asn Lys Ile Leu Pro Gly Leu Tyr Ile Gly
1 5 10 15
Asn Phe Lys Asp Ala Arg Asp Ala Glu Gln Leu Ser Lys Asn Lys
20 25 30
Val Thr His Ile Leu Ser Val His Asp Ser Ala Arg Pro Met Leu
35 40 45
Glu Gly Val Lys Tyr Leu Cys Ile Pro Ala Ala Asp Ser Pro Ser
50 55 60
Gln Asn Leu Thr Arg His Phe Lys Glu Ser Ile Lys Phe Ile His
65 70 75
Glu Cys Arg Leu Arg Gly Glu Ser Cys Leu Val His Cys Leu Ala
80 85 90
Gly Val Ser Arg Ser Val Thr Leu Val Ile Ala Tyr Ile Met Thr
95 100 105
Val Thr Asp Phe Gly Trp Glu Asp Ala Leu His Thr Val Arg Ala
110 115 120

```

Gly	Arg	Ser	Cys	Ala	Asn	Pro	Asn	Val	Gly	Phe	Gln	Arg	Gln	Leu
				125					130					135
Gln	Glu	Phe	Glu	Lys	His	Glu	Val	His	Gln	Tyr	Arg	Gln	Trp	Leu
				140					145					150
Lys	Glu	Glu	Tyr	Gly	Glu	Ser	Pro	Leu	Gln	Asp	Ala	Glu	Glu	Ala
				155					160					165
Lys	Asn	Ile	Leu	Ala	Ala	Pro	Gly	Ile	Leu	Lys	Phe	Trp	Ala	Phe
				170					175					180
Leu	Arg	Arg	Leu											

<210> 29

<211> 118

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte Clone Number: 619292

<400> 29

Met	Gly	Leu	Ile	Asp	Gly	Met	His	Thr	His	Leu	Gly	Ala	Pro	Gly
1				5					10					15
Leu	Tyr	Ile	Gln	Thr	Leu	Leu	Pro	Gly	Ser	Pro	Ala	Ala	Ala	Asp
				20					25					30
Gly	Arg	Leu	Ser	Leu	Gly	Asp	Arg	Ile	Leu	Glu	Val	Asn	Gly	Ser
				35					40					45
Ser	Leu	Leu	Gly	Leu	Gly	Tyr	Leu	Arg	Ala	Val	Asp	Leu	Ile	Arg
				50					55					60
His	Gly	Gly	Lys	Lys	Met	Arg	Phe	Leu	Val	Ala	Lys	Ser	Asp	Val
				65					70					75
Gly	Lys	Gln	Pro	Arg	Arg	Ser	Ile	Ser	Ala	Arg	Pro	Leu	Ser	Arg
				80					85					90
Gly	Ala	Ala	Arg	Thr	Pro	Pro	Gln	Ala	Arg	His	Pro	Val	Pro	Pro
				95					100					105
Gly	Asp	Thr	Gly	Leu	Pro	Pro	Ala	Phe	Val	Pro	Val	Leu		
				110					115					

<210> 30

<211> 356

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte Clone Number: 2054049

<400> 30

Met	Val	Gly	Val	Ser	Gly	Lys	Arg	Ser	Lys	Glu	Asp	Glu	Lys	Tyr
1				5					10					15
Leu	Gln	Ala	Ile	Met	Asp	Ser	Asn	Ala	Gln	Ser	His	Lys	Ile	Phe
				20					25					30
Ile	Phe	Asp	Ala	Arg	Pro	Ser	Val	Asn	Ala	Val	Ala	Asn	Lys	Ala
				35					40					45
Lys	Gly	Gly	Gly	Tyr	Glu	Ser	Glu	Asp	Ala	Tyr	Gln	Asn	Ala	Glu

50	55	60
Leu Val Phe Leu Asp Ile His Asn Ile	His Val Met Arg Glu Ser	
65	70	75
Leu Arg Lys Leu Lys Glu Ile Val Tyr	Pro Asn Ile Glu Glu Thr	
80	85	90
His Trp Leu Ser Asn Leu Glu Ser Thr	His Trp Leu Glu His Ile	
95	100	105
Lys Leu Ile Leu Ala Gly Ala Leu Arg	Ile Ala Asp Lys Val Glu	
110	115	120
Ser Gly Lys Thr Ser Val Val Val His	Cys Ser Asp Gly Trp Asp	
125	130	135
Arg Thr Ala Gln Leu Thr Ser Leu Ala	Met Leu Met Leu Asp Gly	
140	145	150
Tyr Tyr Arg Thr Ile Arg Gly Phe Glu	Val Leu Val Glu Lys Glu	
155	160	165
Trp Leu Ser Phe Gly His Arg Phe Gln	Leu Arg Val Gly His Gly	
170	175	180
Asp Lys Asn His Ala Asp Ala Asp Arg	Ser Pro Val Phe Leu Gln	
185	190	195
Phe Ile Asp Cys Val Trp Gln Met Thr	Arg Gln Phe Pro Thr Ala	
200	205	210
Phe Glu Phe Asn Glu Tyr Phe Leu Ile	Thr Ile Leu Asp His Leu	
215	220	225
Tyr Ser Cys Leu Phe Gly Thr Phe Leu	Cys Asn Ser Glu Gln Gln	
230	235	240
Arg Gly Lys Glu Asn Leu Pro Lys Arg	Thr Val Ser Leu Trp Ser	
245	250	255
Tyr Ile Asn Ser Gln Leu Glu Asp Phe	Thr Asn Pro Leu Tyr Gly	
260	265	270
Ser Tyr Ser Asn His Val Leu Tyr Pro	Val Ala Ser Met Arg His	
275	280	285
Leu Glu Leu Trp Val Gly Tyr Tyr Ile	Arg Trp Asn Pro Arg Met	
290	295	300
Lys Pro Gln Glu Pro Ile His Asn Arg	Tyr Lys Glu Leu Leu Ala	
305	310	315
Lys Arg Ala Glu Leu Gln Lys Lys Val	Glu Glu Leu Gln Arg Glu	
320	325	330
Ile Ser Asn Arg Ser Thr Ser Ser Ser	Glu Arg Ala Ser Ser Pro	
335	340	345
Ala Gln Cys Val Thr Pro Val Gln Thr	Val Val	
350	355	

<210> 31
 <211> 453
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte Clone Number: 2843910

<400> 31
 Met Ala Gly Ala Gly Gly Phe Gly Cys Pro Ala Gly Gly Asn Asp
 1 5 10 15
 Phe Gln Trp Cys Phe Ser Gln Val Lys Gly Ala Ile Asp Glu Asp

	20		25		30
Val Ala Glu Ala Asp	Ile Ile Ser Thr	Val Glu Phe Asn Tyr Ser			
	35		40		45
Gly Asp Leu Leu Ala Thr	Gly Asp Lys Gly Gly Arg Val Val Ile				
	50		55		60
Phe Gln Arg Glu Gln Glu	Asn Lys Ser Arg Pro His Ser Arg Gly				
	65		70		75
Glu Tyr Asn Val Tyr Ser	Thr Phe Gln Ser His Glu Pro Glu Phe				
	80		85		90
Asp Tyr Leu Lys Ser Leu	Glu Ile Glu Glu Lys Ile Asn Lys Ile				
	95		100		105
Arg Trp Leu Pro Gln Gln	Asn Ala Ala His Phe Leu Leu Ser Thr				
	110		115		120
Asn Asp Lys Thr Ile Lys	Leu Trp Lys Ile Ser Glu Arg Asp Lys				
	125		130		135
Arg Ala Glu Gly Tyr Asn	Leu Lys Asp Glu Asp Gly Arg Leu Arg				
	140		145		150
Asp Pro Phe Arg Ile Thr	Ala Leu Arg Val Pro Ile Leu Lys Pro				
	155		160		165
Met Asp Leu Met Val Glu	Ala Ser Pro Arg Arg Ile Phe Ala Asn				
	170		175		180
Ala His Thr Tyr His Ile	Asn Ser Ile Ser Val Asn Ser Asp His				
	185		190		195
Glu Thr Tyr Leu Ser Ala	Asp Asp Leu Arg Ile Asn Leu Trp His				
	200		205		210
Leu Glu Ile Thr Asp Arg	Ser Phe Asn Ile Val Asp Ile Lys Pro				
	215		220		225
Ala Asn Met Glu Glu Leu	Thr Glu Val Ile Thr Ala Ala Glu Phe				
	230		235		240
His Pro His Gln Cys Asn	Val Phe Val Tyr Ser Ser Ser Lys Gly				
	245		250		255
Thr Ile Arg Leu Cys Asp	Met Arg Ser Ser Ala Leu Cys Asp Arg				
	260		265		270
His Ser Lys Phe Phe Glu	Glu Glu Pro Glu Asp Pro Ser Ser Arg Ser				
	275		280		285
Phe Phe Ser Glu Ile Ile	Ser Ser Ile Ser Asp Val Lys Phe Ser				
	290		295		300
His Ser Gly Arg Tyr Met	Met Thr Arg Asp Tyr Leu Ser Val Lys				
	305		310		315
Val Trp Asp Leu Asn Met	Glu Ser Arg Pro Val Glu Thr His Gln				
	320		325		330
Val His Glu Tyr Leu Arg	Ser Lys Leu Cys Ser Leu Tyr Glu Asn				
	335		340		345
Asp Cys Ile Phe Asp Lys	Phe Glu Cys Cys Trp Asn Gly Ser Asp				
	350		355		360
Ser Ala Ile Met Thr Gly	Ser Tyr Asn Asn Phe Phe Arg Met Phe				
	365		370		375
Asp Arg Asp Thr Arg Arg	Asp Val Thr Leu Glu Ala Ser Arg Glu				
	380		385		390
Ser Ser Lys Pro Arg Ala	Ser Leu Lys Pro Arg Lys Val Cys Thr				
	395		400		405
Gly Gly Lys Arg Arg Lys	Asp Glu Ile Ser Val Asp Ser Leu Asp				
	410		415		420
Phe Asn Lys Lys Ile Leu	His Thr Ala Trp His Pro Val Asp Asn				
	425		430		435
Val Ile Ala Val Ala Ala	Thr Asn Asn Leu Tyr Ile Phe Gln Asp				

440 445 450

Lys Ile Asn

<210> 32
<211> 1221
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte Clone Number: 132240

<400> 32
cttttcctgg aatttctata atggaaagtc cattagaaag tcagccctta gattcagata 60
gaagcatcaa agaatcctct tttgaagaat caaatattga agatccactt attgtaacac 120
cagattgcc aaaaaagacc tcacaaaaag gtgtcgagaa ccctgctgta caagagagta 180
acaaaaaat gttaggctct cctttggagg tgctgaaaac gttagcctct aaaagaaatg 240
ctgttgcttt tcgaagtttt aacagtcata ttaatgcac caataactca gaaccatcca 300
gaatgaacat gacttcttta gatgcaatgg atatttcgtg tgcctacagt ggttcatatc 360
ccatggctat aaccctact caaaaaagaa gatcctgtat gccacatcag accccaaatc 420
agatcaagtc gggaactcca taccgaactc cgaagagtgt gagaagaggg gtggcccccg 480
ttgatgatgg gcgaattcta ggaaccccag actaccttgc acctgagctg ttactaggca 540
gggcccagtg tctgcggtg gactgggtgg cacttggagt ttgcttggtt gaatttctaa 600
caggaattcc ccctttcaat gatgaaacac cacaacaagt attccagaat attctgaaaa 660
gagatatccc ttggccagaa ggtgaagaaa agttatctga taatgctcaa agtgcagtag 720
aaatactttt aaccattgat gatacaaaga gagctggaat gaaagagcta aaacgtcatc 780
ctctcttcag tgatgtggac tgggaaaatc tgcagcatca gactatgcct ttcaccccc 840
agccagatga tgaaacagat acctcctatt ttgaagccag gaatactgct cagcacctga 900
ctgtatctgg atttagtctg tagcacaaaa attttccttt tagtctagcc ttgtgttata 960
gaatgaactt gcataattat atactcctta atactagatt gatctaaggg ggaaagatca 1020
ttatttaacc tagttcaatg tgcttttaat gtacgttaca gctttcacag agttaaaagg 1080
ctgaaaggaa tatagtcagt aatttatctt aacctcaaaa ctgtatataa atcttcaaa 1140
cttttttcat ttatttattt tgtttattgc actttatgaa aactgaagca tcaataaaat 1200
tagaggacac taaaaaaaaa a 1221

<210> 33
<211> 542
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte Clone Number: 2180116

<400> 33
tggccaggtc gggccagca gcgcgatggc agctcagcgg ctgggcaagc gcgtgctgag 60
caagctgcag tctccatcgc gggcccgagg gccagggggc agtcccgggg ggatgcagaa 120
gcggcacgcg cgcgtcacgc tcaagtatga ccggcgaggag ctgcagcggc ggctggacgt 180
ggagaagtgg atcgacgggc gcctggagga gctgtaccgc ggcagtgagg cagacatgcc 240
cgatgagatc aacattgatg aattgttggg gttagagagt gaagaggaga gaagccggaa 300
aatccaggga ctctgaagt catgtgggaa acctgtcgag gacttcatcc aggagctgct 360
ggcaaagctt caaggcctcc acaggcagcc cggcctccgc cagccaagcc cctcccacga 420
cggcagcctc agccccctcc aggaccgggc ccggactgct caccctgac cctcttgac 480
tctccctgcc ccccggaagc cgccagctt gcttgtgtat aagttgtatt taatggattc 540

tt

542

<210> 34
<211> 2778
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 2548, 2557, 2645, 2722, 2557, 2762, 2765
<223> Incyte Clone Number: 2197671

<400> 34
cgcggtatcgt cgcgggcccg cegtcccgtc ccaggaagtg gccgtcctga gcgccatggc 60
tactccccg gtgcagtcgg gcctgcccgg catgcagAAC ctAAaggcag acccagaaga 120
gctttttaca aaactagaga aaattgggaa gggctccttt ggagaggtgt tcaaaggcat 180
tgacaatcgg actcagaaag tgggtgccat aaagatcatt gatctggaag aagctgaaga 240
tgagatagag gacattcaac aagaaatcac agtgctgagt cagtgtgaca gtccatatgt 300
aaccAAatat tatggatcct atctgaagga tAAAAatta tggataataa tggAatatct 360
tgggtggaggc tccgcactag atctattaga acctggccga ttagatgaaa ccagatcgc 420
tactatatta agagaaatac tgaaaggact cgattatctc cattcggaga agaaaatcca 480
cagagacatt aaagcggcca acgtcctgct gtctgagcat ggcgaggtga agctggcgga 540
ctttggcggtg gctggccagc tgacagacac ccagatcaaa aggaacacct tcgtgggcac 600
cccattctgg atggcaccgg aggtcatcaa acagtcggcc tatgactcga aggcagacat 660
ctgggtccctg ggcataacag ctattgaact tgcaagaggg gaaccacctc attccgagct 720
gcaccccatg aaagttttat tctcattcc aaagaacaac ccaccgacgt tggAaggaaa 780
ctacagtaaa cccctcaagg agtttgtgga ggctgtttg aataaggagc cgagctttag 840
accactgct aaggagttat tgaagcacia gtttatacta cgcaatgcaa agaaaacttc 900
ctacttgacc gagctcatcg acaggtacaa gagatggaag gccgagcaga gccatgacga 960
ctcgagctcc gaggattccg acgcgaaaac agatggccaa gcctcggggg gcagtgattc 1020
tggggactgg atcttcacia tccgagaaaa agatcccaag aatctcgaga atggagctct 1080
tcagccatcg gacttggaca gaaataagat gaaagacatc ccaaaggagg ctttctctca 1140
gtgtttatct acaattatct ctctctgtt tgcaagttg aaggagaaga gccaggcggtg 1200
cggaggggaac ttgggggtcca ttgaagagct gcgaggggcc atctacctag cggagggaggc 1260
gtgccctggc atctccgaca ccatggtggc acagctcgtg cagcggctcc agagatactc 1320
tctaagtggg ggaggaactt catcccactg aaattccttt ggcatttggg gttttgtttt 1380
tctttttttc cttcttcac ctcctccttt tttaaaagtc aacgagagcc ttcgctgact 1440
ccaccgaaga ggtgcgccac tgggagccac ccagtgcca ggcgcccgtc caggacaca 1500
cacagtcttc actgtgctgc agccagatga agtctctcag atgggtgggg agggtcagct 1560
ccttcagcg atcattttat tttattttat tacttttgtt tttAatttta accatagtgc 1620
acatattcca ggaaagtgtc tttaaaaaca aaaacaaacc ctgaaatgta tatttgggat 1680
tatgataagg caactaaaga catgaaacct caggtatcct gctttaagtt gataactccc 1740
tctgggagct ggagaatcgc tctggtggat ggggtgtacag atttgtatat aatgtcattt 1800
ttacggaaac cctttcggcg tgcataagga atcactgtgt acaaactggc caagtgcctc 1860
tgtagataac gtcagtggag taaatattcg acaggccata acttgagtct attgccttg 1920
ctttattaca tgtacatttt gaattctgtg accagtgatt tgggttttat tttgttttg 1980
cagggtttgt catttaataat taatgcccct ctcttacaga acactcctat ttgtacctca 2040
acaaatgcaa attttccccg tttgccctac gccccttttg gtacacctag aggttgattt 2100
cctttttcat cgatggtact atttcttagt gttttaaatt ggaacatatt ttgcctcatg 2160
aagctttaaa ttataatttt cagtttctcc ccatgaagcg ctctcgtctg acatttgttt 2220
ggaatcgtgc cactgctggt ctgcgccaga tgtaccgtcc tttccaatac gattttctgt 2280
tgcacctgt agtggattct gcatatcatc tttcccacct aaaaatgtct gaatgcttac 2340
acaaataaat tttataacac gcttattttg catactcctt gaaatgtgac tcttcagagg 2400
acagggtacc tgctgtgtat gtgtggccgt gcgtgtgtac tcgtggctgt gtgtgtgtga 2460

tgagacactt tgggaagactc caggggagaag ttcccagggc tggagctgcc gagtgccag 2520
gtcagcgccc tgggctgctt gcgcaatngc tcaccngat gatgcattgg aggttgctga 2580
cctgtgcgat tgctgtagcg gttgccaggg accttaaggg gttattttgc ttccctggga 2640
ggggncctat gtttctaggc aagcagccat gtgtctaatt ttctgggttt gctgtgggga 2700
cctgattggg ggagggggaa anctttgggg ttcttgaggt gggaggggtc gtgccancaa 2760
tntncttg taaaaaag 2778

<210> 35

<211> 1424

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte Clone Number: 2594943

<400> 35

ggctcagcct ccgacccagg tgggtctggag cctgccggga gagtgggtggc atctgagagg 60
ctggctcgtgg actgtggttg ggggaggtgg gagctgtttt aaccgtgtgc cccctctcct 120
gtgccggcgt gggcatcccc cggggcagtg gaacgcgggc gtcctccag ctcccgagtc 180
cagccagcct gggcgcgggg cgccgcccc gagacaccg aggagtccgt tcctccctgg 240
ttacgtggac tgtggagctg gtctcttggt gtcagcgcc gtgcggaggt tgaagcgtac 300
ctgcggaggt cgcaccaggg cgtgaggagg aggaggaaag gcatgagccg agcttgagga 360
atccgtgtct caaactctac actcaagggt ggcccttggg tagggtgaag atccccgtc 420
tttatacctag ttccacacct tgggtgtgggt tactgggtgc aggatgaact gtcgctcgga 480
ggtgctggag gtgtcggtgg aggggcggca ggtggaggag gccatgctgg ctgtgctgca 540
cacggtgctt ctgcaccgca gcacaggcaa gttccactac aagaaggagg gcacctactc 600
cattggcacc gtgggcaccc aggatgttga ctgtgacttc atcgacttca cttatgtgcg 660
tgtctcttct gaggaactgg atcgtgccct gcgcaagggt gttggggagt tcaaggatgc 720
actgcgcaac tctggtggcg atgggtggg gcagatgtcc ttggagttct accagaagaa 780
gaagtctcgc tggccattct cagacgagtg catcccatgg gaagtgtgga cgggtcaagg 840
gcatgtggta gccctggcca cggagcagga gcggcagatc tgccgggaga aggtgggtga 900
gaaactctgc gagaagatca tcaacatcgt ggaggtgatg aatcggcag agtacttgcc 960
caagatgccc acacagtcgg aggtggataa cgtgtttgac acaggcttgc gggacgtgca 1020
gccctacctg tacaagatct ccttccagat cactgatgcc ctgggcacct cagtcaccac 1080
caccatgcgc aggtcatca aagacacct tgccctctga gcgtcgctgg atctctggga 1140
gctccttgat ggtcccaga ccttggtttt tgggaattgc acttttgggc ctttgggctc 1200
tggaaacctgc tctgggtcat tggtagact tggaaagggt agccccgcgt ggcttcttgg 1260
ttttgtggtt gccagcctca ggtcactcct ttaatctttg ctgatgggtc agtccctgct 1320
ctactgtctc tccatagccc tgggtgggtc cccctcttt ctccactgta cagaagagcc 1380
accactggga tggggaataa agttgagaac atgaaaaaaa aaaa 1424

<210> 36

<211> 1839

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte Clone Number: 1513871

<400> 36

cctcctctc ggccagctca ggttgcagct tctctgggga actgctcacc tttccggagc 60
aggggaagct gccccgtgcc cgggagggag cgggcgcacc gcggcccca ggacacgcgc 120
tgaccgggt gcccagtcct tcatgatcat gaacaagatg aagaacttta agcgcggttt 180
ctccctgtca gtgccccgca ctgagacct tgaagaatcc ttggctgaat tcacggagca 240

```

attcaaccag ctccacaacc ggcggaatga gaacttgcag ctcggtcctc ttggcagaga 300
ccccccgcag gagtgcagca ccttctcccc aacagacagc ggggaggagc cggggcagct 360
ctcccctggc gtgcagttcc agcggcggca gaaccagcgc cgcttctcca tggaggacgt 420
cagcaagagg ctctctctgc ccatggatat ccgcctgccc caggaattcc tacagaagct 480
acagatggag agcccagatc tgcccaagcc gtcagccgc atgtcccgcc gggcctccct 540
gtcagacatt ggctttggga aactggaaac atacgtgaaa ctggacaaac tgggagaggg 600
cacctatgcc acagtcttca aagggcgcag caaactgacg gagaaccttg tggccctgaa 660
agagatccgg ctggagcacg aggaggagc gccctgcact gccatccgag aggtgtctct 720
gctgaagaac ctgaagcacg ccaatattgt gaccctgcat gacctcatcc acacagatcg 780
gtccctcacc ctggtgtttg agtacctgga cagtgcactg aagcagtatc tggaccactg 840
tggaacctc atgagcatgc acaacgtcaa gattttcatg ttccagctgc tccggggcct 900
cgctactgt caccaccgca agatcctgca ccgggacctg aagccccaga acctgctcat 960
caacgagagg ggggagctga agctggccga ctttggactg gccagggcca agtcagtgc 1020
cacaagactg tactccaatg aggtggtgac cctgtggtac agggcccccg atgtgctgct 1080
gggaaccaca gagtactcca cccccattga tatgtggggc gtgggctgca tccactacga 1140
gatggccaca gggaggcccc tcttcccggt ctccacagtc aaggaggagc tgcacctcat 1200
ctttcgctc ctcgggaccc ccacagaaga gacgtggccc ggcgtgaccg ctttctctga 1260
gttcgcgacc tacagcttcc cctgctacct ccgcagccg ctcatcaacc acgcgccag 1320
gttgatacgt gatggcatcc acctcctgag cagcctgtct ctgtatgaat ccaagagtcg 1380
catgtcagca gaggctgccc tgagtcactc ctacttccgg tctctgggag agcgtgtgca 1440
ccagcttgaa gacactgcct ccatcttctc cctgaaggag atccagctcc agaaggacct 1500
aggctaccga ggcttggcct tccagcagcc aggacgagg aagaacaggc ggcagagcat 1560
cttctgagcc acgcccacct tgctgtggcc aagggacaa agatcacatg gagcacaat 1620
tcgggtagga tggagcctgt gtggccctcg gaggactgaa gaacgagggc tgacagcagc 1680
ctggaagacc gcttggcagg cttttggcca agtggttttc tttgtggtt cgatctgctg 1740
ccagtgttt cagtggatc aacgtgcttt aggagttggg tgggaaagtc ttgctagagg 1800
gtttaggggg aggtttctac cgttgactcg gtttagggc 1839

```

<210> 37

<211> 2024

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte Clone Number: 156108

<400> 37

```

gtcagctctg gttcggagaa gcagcggtcg gcgtgggcca tccggggaat gggcgccctc 60
gtgacctagt gttgcggggc aaaaagggtc ttgccggcct cgctcgtgca ggggcgtatc 120
tgggcgcctg agcgcggcgt gggagccttg ggagccgcgc cagcaggggg cacaccgga 180
accggcctga gcgcccggga ccatgaacgg ggaggccatc tgcagcgccc tgcccacct 240
tccctaccac aaactcgccg acctgcgcta cctgagccgc ggcgcctctg gcactgtgtc 300
gtccgcccgc cagcagact ggcgcgtcca ggtggcgtg aagcacctgc acatccacac 360
tccgctgtc gacagtga aaaggatgt cttaagagaa gctgaaattt tacacaaagc 420
tagatttagt tacattcttc caattttggg aatttgcaat gagcctgaat ttttgggaat 480
agttactgaa tacatgccaa atggatcatt aaatgaactc ctacatagga aaactgaata 540
tcctgatgtt gcttggccat tgagatttcg catcctgcat gaaattgccc ttggtgtaaa 600
ttacctgcac aatatgactc ctctttact tcatcatgac ttgaagactc agaatatctt 660
attggacaat gaatttcatg ttaagattgc agattttggt ttatcaaagt ggcgcagat 720
gtccctctca cagtcacgaa gtagcaaatc tgcaccagaa ggagggacaa ttatctatat 780
gccacctgaa aactatgaac ctggacaaaa atcaagggcc agtatcaagc acgatataata 840
tagctatgca gttatcacat ggggaagtgt atccagaaaa cagccttttg aagatgtcac 900
caatcctttg cagataatgt atagtgtgtc acaaggacat cgacctgtta ttaatgaaga 960
aagtttgcca tatgatatac ctccaccgag acgtatgatc tctctaataa aaagtggatg 1020

```

```

ggcacaaaat ccagatgaaa gaccatcttt cttaaaatgt ttaatagaac ttgaaccagt 1080
tttgagaaca tttgaagaga taacttttct tgaagctggt attcagctaa agaaaacaaa 1140
gttacagagt gtttcaagtg ccattcacct atgtgacaag aagaaaatgg aattatctct 1200
gaacatacct gtaaatcatg gtccacaaga ggaatcatgt ggatcctctc agctccatga 1260
aaatagtggg tctcctgaaa cttcaagggt cctgccagct cctcaagaca atgatttttt 1320
atctagaaaa gctcaagact gttattttat gaagctgcat cactgtcctg gaaatcacag 1380
ttgggatagc accatttctg gatctcaaag ggctgcattc tgtgatcaca agaccactcc 1440
atgctcttca gcaataataa atccactctc aactgcagga aactcagaac gtctgcagcc 1500
tggatatagc cagcagtggg tccagagcaa aagggaagac atttgtgaacc aaatgacaga 1560
agcctgcctt aaccagtcgc tagatgccct tctgtccagg gacttgatca tgaaagagga 1620
ctatgaactt gttagtagca agcctacaag gacctcaaaa gtcagacaat tactagacac 1680
tactgacatc caaggagaag aatttgccaa agttatagta caaaaattga aagataacaa 1740
acaaatgggt cttcagcctt acccggaat acttgtgggt tctagatcac catctttaaa 1800
tttacttcaa aataaaagca tgtaagtgc tgtttttcaa gaagaaatgt gtttcataaa 1860
aggatatatta tatctctgtt gctttgactt tttttatata aaatccgtga gtattaaagc 1920
tttattgaag gttctttggg taaatattag tctccctcca tgacactgca gtattttttt 1980
taattaatac aagtaaaaag tttgaatttt gctacataaa aaaa 2024

```

<210> 38

<211> 1861

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte Clone Number: 2883243

<400> 38

```

gcttcttagt gaggttggca ttatgttaag gctgggtatgg aagacaactg atgaagcagg 60
agtgggtctgg tgacatTTTT ctgacttgat tggctggggc gtgtgatgta ataggtttca 120
gtgcagcccc ttataggttt taaaatgaat tccaagacac cattacaaag aaagccggac 180
tcttttctta taactgagct cagccaagga aactcttgca caaatgtaca atactgtttg 240
gaatatggaa gacctggatt tagaatatgc caagacagat ataaattgtg gcacagactt 300
gatgttttat atagaaatgg acccaccagc actgctctct aaaccaccaa aacctactac 360
tgtagccaac aacgggtatga ataacaatat gtctttacaa gatgctgaat ggtactgggg 420
agatatctcg agggagaag tgaaatgaaa acttcgagat acagcagacg ggaccttttt 480
ggtagcagat gcgtctacta aaatgcattg tgattatact cttacactaa ggaaaggggg 540
aaataacaaa ttaatcaaaa ttttcatcg agatgggaaa tatggcttct ctgaccatt 600
aaccttcagt tctgtggttg aattaataaa ccactaccgg aatgaatctc tagctcagta 660
taatccaaa ttggatgtga aattacttta tccagtatcc aaataccaac aggatcaagt 720
tgtcaaagaa gataatattg aagctgtagg gaaaaatta catgaatata acactcagtt 780
tcaagaaaaa agtcgagaat atgatagatt atatgaagaa tatacccgca catcccagga 840
aatccaaatg aaaaggacag ctattgaagc atttaatgaa accataaaaa tatttgaaga 900
acagtgccag acccaagagc ggtacagcaa agaatacata gaaaagttta aacgtgaagg 960
caatgagaaa gaaatacaaa ggattatgca taattatgat aagttgaagt ctcgatcag 1020
tgaaattatt gacagtagaa gaagattgga agaagacttg aagaagcagg cagctgagta 1080
tcgagaaatt gacaaacgta tgaacagac taaaccagac cttatccagc tgagaaagac 1140
gagagacca tacttgatgt ggttgactca aaaagggtgt cggcaaaaga agttgaacga 1200
gtgggttgggc aatgaaaaca ctgaagacca atattcactg gtggaagatg atgaagattt 1260
gccccatcat gatgagaaga catggaatgt tggagcagc aaccgaaaca aagctgaaaa 1320
cctgttgcca gggagcag atggcacttt tctgtccgg gagagcagta aacagggtct 1380
ctatgcctgc tctgtagtgg tggacggcga agtaaagcat tgtgtcataa acaaaacagc 1440
aactggctat ggctttgccg agccctataa cttgtacagc tctctgaaag aactgggtgt 1500
acattaccaa cacacctccc ttgtgcagca caacgactcc ctcaatgtca cactagccta 1560
cccagtatat gcacagcaga ggcgatgaag cgcttactct ttgatccttc tctgaagtt 1620

```

```

cagccaccct gaggcctctg gaaagcaaag ggctcctctc cagtctgata tgtgaattga 1680
gctgcagaaa cgaagccaac ttttttttga tgggactagt gctttctttc acaaaaaaga 1740
agtaggggaa gacatgcagc ctaaggctgt atgatgacca cacgttccta agctggagtg 1800
cttatccctt ctttttcttt ttttctttgg ttttaatttaa agccacaacc acatacaaca 1860
c

```

<210> 39

<211> 2045

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte Clone Number: 3173355

<400> 39

```

cttggttgga acctgagacg gattcgctcc caaatgatgc tccagtggca ggagcaactc 60
aagttcatca ttgtcctgag agagaggagc agcgcggttc tcggccggga cagcagaacg 120
ccaggggacc ctcacctggg cgcgcggggg cacgggcttt gattgtcctg gggtcgcgga 180
gacccgcgcg cctgccctgc acgcggggcg gcaacctttg cagtcgcgtt ggctgctgcy 240
atcgcccggc gggtcctctg cgaaggctcg gctgcttctg tccacctctt acacttcttc 300
atztatcggt ggatcatttc gagagtcctg cttgtaaagt tttggcactt tgctacttta 360
ttgcttcttt ctggcgacag ttccagcact cgccgagacc ggcggagaaa ggcagctgag 420
cccggaagaag agcgaaatat ggggacccgg gctaaaagca gacgtcgtcc ttcccgcccg 480
ctatttctat attcaggcag tggatacatc agggaataaa ttcacatctt ctccaggcca 540
aaaggtcttc caggtgaaag tctcagcacc agaggagcaa ttcactagag ttggagtcca 600
ggtttttaga cgaaaagatg ggtecttcat agtaagatac agaagtatg caagctacaa 660
aaatctgaag gtggaaatta aattccaagg gcaacatgtg gccaaatccc catatatatt 720
aaaagggccg gtttaccatg agaactgtga ctgtcctctg caagatagtg cagcctggct 780
acgggagatg aactgccctg aaaccattgc tcagattcag agagatctgg cacatttccc 840
tgctgtggat ccagaaaaga ttgcagtaga aatcccaaaa agatttggac agaggcagag 900
cctatgtcac tacaccttaa aggataacaa ggtttatatc aagactcatg gtgaacatgt 960
aggtttttaga attttcatgg atgccatact actttctttg actagaaagg tgaagatgcc 1020
agatgtggag ctctttgtta atttgggaga ctggcctttg gaaaaaaaga aatccaattc 1080
aaacatccat ccgatctttt cctgggtgtg ctccacagat tccaaggata tcgtgatgcc 1140
tacgtacgat ttgactgatt ctgttctgga aaccatgggc cgggtaagtc tggatatgat 1200
gtcctgtcaa gctaacacgg gtcctcctcg ggaaagcaaa aattccactg ccgtctggag 1260
agggcgagac agccgcaaag agagactcga gctgggttaa ctcagtagaa aacacccaga 1320
actcatagac gctgctttca ccaacttttt cttcttttaa cacgatgaaa acctgtatgg 1380
tcccattgtg aaacatatatt ctttttttga tttcttcaag cataagtatc aaataaatat 1440
cgatggcact gtagcagctt atcgccctgc atatttgcta gttggtgaca gtgtgtgtgt 1500
gaagcaggat tccatctact atgaacattt ttacaatgag ctgcagccct ggaaacacta 1560
cattccagtt aagagcaacc tgagcgatct gctagaaaaa cttaaattgg cgaaagatca 1620
cgatgaagag gccaaaaaga tagcaaaagc aggacaagaa tttgcaagaa ataactctcat 1680
gggcgatgac atattctgtt attatttcaa acttttccag gaatatgcca atttacaagt 1740
gagtgaagccc caaatccgag agggcatgaa aagggtagaa ccacagactg aggacgacct 1800
cttcccttgt acttgccata ggaaaaagac caaagatgaa ctctgatatg caaaataact 1860
tctattagaa taatgggtgt ctgaagactc ttcttaacta aaaagaagaa tttttttaag 1920
tattaattcc atggacaata taaaatctgt gtgattgttt gcagtatgaa gacacatttc 1980
tacttatgca gtattctcat gactgtactt taaagtacat ttttagaatt ttataataaa 2040
accac

```

<210> 40

<211> 1260

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte Clone Number: 5116906

<400> 40

```
cgatattttt ctttcttagt ttcccatctt atattgtttt gtcaaataca ctgtgactca 60
ttaacatctc ttttccctag gttttgctgg cacacctgga tatctttctc cagaagtttt 120
acgtaaagat ccttatggaa agccagtggg tatgtgggca tgtggtgtca ttctctatat 180
tctacttggt ggggtatccac ctttctggga tgaagaccaa cacagactct atcagcagat 240
caaggctgga gcttatgatt ttccatcacc agaatgggac acggtgactc ctgaagccaa 300
agacctcatc aataaaatgc ttactatcaa cctgcccata cgcatacag cctcagaggc 360
actgaagcac ccatggatct gtcaacgttc tactgttgct tccatgatgc acagacagga 420
gactgtagac tgcttgaaga aatttaatgc tagaagaaaa ctaaaggggtg ccatcttgac 480
aactatgctg gctacaagga atttctcagc agccaagagt ttgttgaaga aaccagatgg 540
agtaaaggag tcaactgaga gttcaaatac aacaattgag gatgaagatg tgaaagcacg 600
aaagcaagag attatcaaag tcaactgaac actgatcgaa gctatcaaca atggggactt 660
tgaagcctac acaaaaatct gtgaccagg cttactgct tttgaacctg aagctttggg 720
taatttagtg gaagggatgg attttcaccg attctacttt gaaaatgctt tgtccaaaag 780
caataaacca atccacacta ttattctaaa cctcatgta catctggtag gggatgatgc 840
cgctgcata gcatatatta ggctcacaca gtacatggat ggcagtggaa tgccaaagac 900
aatgcagtca gaagagactc gtgtgtggca ccgcgggat ggaaagtggc agaattgtca 960
ttttcatcgc tcgggggtcac caacagtacc catcaactaa atttcaacag tgccacttct 1020
gcattctctg ttctcaaggc acctggatgg tgacctggg ccgtcctctc ctectcttca 1080
tgcattgttc tgagtgcag aagttgtgaa ggtcctacat gtaatgcata tgtgatgcat 1140
catcttatca tatattcctt cctatacatt gtttacactt caactacggg gatgttccac 1200
acaaacttaa attactgttg gcaaaaacaat agggggagat tagacaaaaa aaaaaaaaaa 1260
```

<210> 41

<211> 2059

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte Clone Number: 940589

<400> 41

```
aaaccataga aacgctaatt aaagcagaca tcaaaatctg gatccttaca ggggacaagc 60
aagaaactgc cattaacatc ggacactcct gcaaaactgt gaagaagaac atgggaatga 120
ttgttataaa tgaaggctct cttgattctt tctctaatac acagaattct aggaaggagg 180
ctgttctttt agccaaaatg aaacacctta atattgttgc cttcaaagaa tcatttgaag 240
ctgaaggaca cttgtatatt gtgatggaat actgtgatgg aggggatcta atgcaaaaaga 300
ttaaacagca gaaaggaaag ttatttcttg aagacatgat acttaattgg ttaccctaaa 360
tgtgccttgg agtaaatcac attcacaaga aacgtgtgct acacagagat atcaagtcca 420
agaatatctt cctcactcag aatggaaaag tgaaattggg agactttgga tctgcccgtc 480
ttctctccaa tccgatggca tttgcttgta cctatgtggg aactccttat tatgtgctc 540
cagaaatttg ggaaaacctg cttataaca ataaaagtga catctggtcc ttgggttgca 600
tcctgtatga actctgtacc cttaagcatc catttcaggc aaatagtggg aaaaatctta 660
tcctcaaagt atgtcaaggg tgcatacgtc cactgccgtc tcattactcc tatgaacttc 720
agttcctagt caagcagatg tttaaaagga atccctcaca tcgcccctcg gctacaacgc 780
ttctctctcg aggcacgtga gctcggcttg tccagaagtg cttaccccccc gagatcatca 840
```

```
tggaatatgg tgaggaagta ttagaagaaa taaaaaatcc gaagcataac acaccaagaa 900
aaaaaacaac cccagcaga atcaggatag ctttgggaaa tgaagcaagc acagtgaag 960
aggaagaaca agatagaaag ggtagccata ctgatttggg aagcattaat gaaaatttag 1020
ttgaaagtgc attgagaaga gtaaacagag aagaaaaagg taataagtca gtccatctga 1080
ggaaagccag ttcaccaaatt cttcatagac gacagtggga gaaaaatgta cccaatacag 1140
ctcttacagc tttggaaaat gcatccatac tcacctccag tttaacagca gaggacgata 1200
gaggtggttc tgtaataaag tacagcaaaa atactactcg taagcagtgg ctcaaagaga 1260
ccccggacac tttgttgaac atccttaaga atgctgatct cagcttggct tttcaaacat 1320
acacaatata tagaccaggt tcagaagggt tcttgaaagg cccctgtct gaagaaacag 1380
aagcatcgga cagtgttgat ggaggtcacg attctgtcat tttggatcca gagcgacttg 1440
agcctgggct agatgaggag gacacggact ttgaggagga agatgacaac cccgactggg 1500
tgtcagagct gaagaagcga gctggatggc aaggcctgtg cgacagataa tgcctgagga 1560
aatgttctct agtcacgctg aggagagcct tcactcagga gttcatgctg agatgatcat 1620
gagttcatgc gacgtatatt ttcctttgga aacagaatga agcagaggaa actcttaata 1680
cttaaaatcg ttcttgatta gtatcgtgag tttgaaaagt ctagaactcc tgtaagtttt 1740
tgaactcaag ggagaaggta tagtggaatg agtgtgagca tcgggctttg cagtcacata 1800
gaacagaaat gggatgctag cgtgccacta cctacttgtg tgattgtggg aaattactta 1860
acctcttcaa gccccaat tctcaacat aaaatgaaga taataatgcc tacctcagag 1920
ggatgctgac cacagacctt tatagcagcc cgtatgatat tattcacatt atgatatgtg 1980
tttattatta tgtgactctt tttacatttc ctaaaaggtt gagaattaaa tatattta 2040
tatgaaaaaa aaaaaaaaaa 2059
```

<210> 42

<211> 1023

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte Clone Number: 304421

<400> 42

```
gaggcagagg ggtgggcggg ctggcccatg gctgagacct ctctcccaga gctgggggga 60
gaggacaaag ccacgccttg cccagcctc ctggagctgg aggagctcct gcgggcaggg 120
aagtcttctt gcagccgtgt ggacgaagt tggcccaacc ttttcatagg agatgcgatg 180
gactcactgc agaagcagga cctccggagg cccaagatcc atggggcagt ccaggcatct 240
ccctaccagc cgccacatt ggcttcgctg cagcgttgcc tgtgggtccg tcaggctgcc 300
acactgaacc atatcgatga ggtctggccc agcctcttcc tgggagatgc gtacgcagcc 360
cgggacaaga gcaagctgat ccagctggga atcacccacg ttgtgaatgc cgctgcaggg 420
aagttccagg tggacacagg tgccaaatcc taccgtggaa tgtccctgga gtactatggc 480
atcgaggcgg atgacaaccc cttcttcgac ctacgtgtct actttctgcc tgttgctcga 540
tacatccgag ctgccctcag tgttccccaa ggccgctgct tggtagactg tgccatgggg 600
gtaagccgct ctgccacact tgtcctggcc ttcctcatga tctatgagaa catgacgctg 660
gtagaggcca tccagacggg gcaggccac cgcaatatct gccctaactc aggtctcctc 720
cggcagctcc aggttctgga caaccgactg gggcgggaga cggggcggtt ctgatctggc 780
aggcagccag gatccctgac ccttgcccca accccaccag cctggccctg ggaacagcag 840
gctctgctgt ttctagtgc cctgagatg aaacagcaag tgggggctga ggcagagcca 900
gggatgctg ggtggtgacc tcttagcggg tggatttccc tgacccaatt cagagattct 960
ttatgcaaaa gtgagttcag tccatctcta taataaaata tttcatctca taaaaaaaaa 1020
aaa 1023
```

<210> 43

<211> 4416

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte Clone Number: 1213802

<400> 43

```
gaaatttttt tctgcctcat tattattaat tcatggattg agtgttggtt cgacctacag 60
gcgtaataga ttggaactca gtgaagacac agatgttcct gttcagagca accagctaata 120
gattacagtt taaagacaat ttctgtgatc aagttgtcat ttggaagatt aaacccattt 180
cacgaggact tggagcctgg tccttgcttt gaggaagcag tggcttggtt caagaagcca 240
cttctgatct aagaatctac ccagcatgcc taatcaagga gaagactgct attttttttt 300
ctattccaca tgtaccaaag gcgacagctg cccattccgt cactgtgaag ctgcaatagg 360
aaatgaaact gtttgacat tatggcaaga agggcgctgt tttcgacagg tgtgcagggt 420
tcggcacatg gagattgata aaaaacgcag tgaattccct tgttattggg aaaatcagcc 480
aacaggatgt caaaaattaa actgcgcttt ccatcacaat agaggacgat atgttgatgg 540
ccttttccta cctccgagca aaactgtgtt gccactgtg cctgagtcac cagaagagga 600
agtgaaggct agccaacttt cagttcagca gaacaaattg tctgtccagt ccaatccttc 660
ccctcagctg cggagcgtta tgaaagtaga aagttccgaa aatgttccta gccccacgca 720
tccaccagtt gtaattaatg ctgcagatga tgatgaagat gatgatgatc agttttctga 780
ggaaggatgt gaaacccaaa cacctaccct gcaaccaact cctgaagttc acaatggatt 840
acgagtgact tctgtccgga aacctgcagt caatataaag caaggtgaat gtttgaattt 900
tggaataaaa actcttgagg aaattaagtc aaagaaaatg aaggaaaaat ctaagaagca 960
aggtgagggt tcttcaggag tttccagtct tttactccac cctgagcccg ttccagggtc 1020
tgaaaaagaa aatgtcagga ctgtggtgag gacagtaact ctctccacca aacaaggaga 1080
agaacccttg gttagattga gtcttactga gagactgggg aaacgaaaat ttcagcagg 1140
cggtgacagt gatcctccat taaagcgtag cctggcacag aggctaggga agaaagttga 1200
agctccagaa actaacattg acaaaacacc aaagaaagct caagtttcca agtctcttaa 1260
ggagcgatta ggcattgtcag ctgatccaga taatgaggat gcaacagata aagttaataa 1320
agttggtgag atccatgtga agacattaga agaaattctt cttgaaagag ccagtcagaa 1380
acgtggagaa ttgcaaaact aactcaagac agaaggacct tcaaaaactg atgattctac 1440
ttcaggagca agaagctcct ccactatccg tatcaaaacc ttctctgagg tcctgggtga 1500
aaaaaaacat cggcagcagg aagcagagag acaaaaaagc aaaaaggata caacttgcatt 1560
caagctaaag attgatagtg aaattaaaaa aacagtagtt ttgccacca ttgttgccag 1620
cagaggacaa tcagaggagc ctgcaggtaa aacaaagtct atgcaggagg tgcacatcaa 1680
gacgtcggaa gaaattaaac tggagaaggc actgaggggt cagcagagct ctgagcagag 1740
caccagctcc ccgtctcaac acgaggccac tccaggggca aggcggctgc tgcgaatcac 1800
caaaagaaca gggatgaaag aagagaagaa ccttcaggaa ggaaatgaag ttgattctca 1860
gagcagtatt agaacagaag ctaaagaggc ttcagggtgag accacaggag ttgacatcac 1920
taaaattcaa gtcaagagat gtgagaccat gagagagaag cacatgcaga aacagcagga 1980
gagggaaaaa tcagtcttga cacctcttcg gggagatgta gcctcttgca ataccctagt 2040
ggcagagaaa ccagtgtctc ctgctgtgcc aggaatcaca cggcacctga ccaagcggct 2100
tcccacaaag tcatcccaga aggtggagggt agaaacctca gggattggag actcattatt 2160
gaatgtgaaa tgtgcagcac agaccttga aaaaaggggt aaagctaaac ccaaagtga 2220
cgtgaagcca tctgtggtta aagttgtgtc atcccccaa ttggcccaa aacgtaaggc 2280
agtggagatg cacgtgtctg tcattgcgcg tgtgaagcca ctgagctcca gcagtgtcct 2340
acaggaaacc ccagcctgtt ccagcctgtt ggtgtgtgtc ccgcttgtct ctgaggacaa 2400
atcagtcact gtgcctgaag cagaaaatcc tagagacagt cttgtgtgtc ctccaaccca 2460
gtcctcttca gattcctcac ccccgagggt gtctggccct tcctcatccc aaatgagcat 2520
gaaaactcgc cgactcagct ctgcctcaac aggaaagccc ccactctctg tggaggatga 2580
ttttgagaaa ctaatatggg agatttcagg aggc aaattg gaagctgaga ttgacctgga 2640
tcctgggaaa gatgaagatg acctctctgt tgagctatca gaaatgattg atagctgaag 2700
gtggtagtga ggacacttta aaaaaaaaaa cgccaaaaaa ctggacttag tttcatctat 2760
tgtaacattt acctgagatg atcatttctt tagtctagaa tttgccccaa atcagaagta 2820
tacctctgaa ttatctgtat gtgtcctgga ttccctgggg tcagattttt aaagttactt 2880
```



```

tataaccatt ttgtccattt gatgccattg tttatcatct tttgagaaaa aagttctgtc 2940
atacccttct ctccacaaaa aagagactga gagggagatc aagtgaaagg gtgcaagcga 3000
acttagtgac tccttgaggt gtttgtcagt tttggttttt ttcttctttg ttgtattctt 3060
tatgtattgt cttgatgtac ttaatattac ctgagtttga aatggatgaa gacagctgct 3120
accattaagg accaaatttt atgctaccac taaacaaaaa taccactca gtctgtgtta 3180
aattgtatgt ctttttaaaag gtattttaaag attcaactaa gctttaaaga gggctgagca 3240
gctcaggaag cctgtaatgt gggcataact ctttggacct gatcttgatg cttctgctgc 3300
tctgttagcc tctgaagagc aatatcta atattattac tgtaattttt taaaaggctt 3360
taaagtgcct caggggtccc ctgaaactaa ttttctattt ctgggattcc ctggattcat 3420
tatatgagat ggtgacatga ttagaggaat tcttttttag tatgaaaatt gtcccttttc 3480
ttcttcagta cttgcctcct tgctggcatt gaattaacac agggacaaaa tttggttaat 3540
tttttatttc taactctccc aacaaacccc tgttgcccag tatttgtttg gtggccttta 3600
accactgag ggaaaaaatg agcttattca agctgccaat atttatctat gggctgtagc 3660
agtacactga attgtactgt gccagggata ttgagatgct ctgggggtgt attgtatacc 3720
tgccagtttt cttcatttct gaattgagtt ttcttttctt gatgttggtt tccttcatat 3780
cacctcaagg tttagatttg tgaaggaata agcatgatgg aaataatagt cttgaaagga 3840
gatatgttgt atataatcag gaggaagagg aaggaaggac ttaccctatt tgatattttg 3900
ctgtagggtg ccagtttttg ttctcatagg gaaatctgac ccacctgtca tgttggtccc 3960
taaggaactg ctgttgtaag cggctcatca agagttgaac ttcacgtagc cttgttgga 4020
atatggaaaa ggaagaaagc cacaggactg cccattcagt cttgggaaga ttgggatgat 4080
tctgcacaag caaaaatgac tgaagtttat gtatagacac acctctacca atccatcttc 4140
agctgactga atgttgtatg atagcccttc tccaaagcag aggtagaatg ttcaggtttc 4200
accatggatt ttctacttat ttctgttttg gaatcagctt acagattcca ggccctttt 4260
gtatatattc ttattctttt tgctttttta aaaaataatt ttgtttcata tttaaagcac 4320
ttgtattagt caatgtttcg tgttcgcgat tatttgaacc atttgccctt acagaaagag 4380
aaatacttgt ttgtgtttta aataaaaactg atgtag 4416

```

<210> 44

<211> 2068

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte Clone Number: 1378134

<400> 44

```

gcagtcctac agtccgctga tgcgtcgccg ggccagcaac gctgccgccc cagcccacac 60
gattggcggc agtaagcaca caatgaatga tcacctgcat gtcggcagcc acgctcacgg 120
acagatccag gttcgacagt tgtttgagga taacagtaac aagcggacag tgctcacgac 180
acaaccaa at gggcttaca cagtgggcaa aacgggcttg ccagtgggtg cagagcggca 240
gctggacagc attcatagac ggcaggggag ctccacctct cttaaagtcca tggaaaggcat 300
ggggaagggt aaagccaccc ccatgacacc tgaacaagca atgaagcaat acatgcaaaa 360
actcacagcc ttggaacacc atgagatttt cagctaccct gaaatatatt tcttgggtct 420
aaatgctaag aagcgccagg gcatgacagg tgggcccac aatgggtggc atgatgatga 480
ccagggatca tatgtgcagg tgccccacga tcacgtggct tacaggtagt aggtcctcaa 540
ggtcattggg aaggggagct ttgggcagg ggtcaaggcc tacgatcaca aagtccacca 600
gcacgtggcc cttaaagatg tgcggaatga gaagcgcttc caccggcaag cagcggagga 660
gatccgaatc ctggaacacc tgcggaagca ggacaaggat aacacaatga atgtcatcca 720
tatgctggag aatttcacct tccgcaacca catctgcatg acgtttgagc tgctgagcat 780
gaacctctat gagctcatca agaagaataa attccagggc ttcagtctgc ctttgggtcg 840
caagtttgcc cactcgattc tgcagtgttt ggatgctttg cacaaaaaca gaataattca 900
ctgtgacctt aagcccagga acattttgtt aaagcagcag ggtagaagcg gtattaaagt 960
aattgatttt ggctccagtt gttacgagca tcagcgtgtc tacacgtaca tccagtcgag 1020
tttttaccgg gctccagaag tgatccttgg ggccaggat ggcattgccc ttgatattgt 1080

```

```

gagcctgggc tgcattttag cagagctcct gacgggttac cccctcttgc ctggggaaga 1140
tgaaggggac cagctggcct gtatgattga actgttgggc atgcccctcac agaaactgct 1200
ggatgcatcc aaacgagcca aaaattttgt gagctccaag gggtatcccc gttactgcac 1260
tgtcacgact ctctcagatg gctctgtggt cctaaacgga ggccgttccc ggagggggaa 1320
actgaggggc ccaccggaga gcagagagtg ggggaacgcg ctgaaggggt gtgatgatcc 1380
ccttttccct gacttcttaa aacagtgttt agagtgggat cctgcagtgc gcatgacccc 1440
aggccaggct ttgcggcacc cctggctgag gaggcggttg ccaaagcctc ccaccgggga 1500
gaaaacgtca gtgaaaagga taactgagag caccggtgct atcacatcta tatccaagtt 1560
acctccacct tctagctcag cttccaaact gaggactaat ttggcgagga tgacagatgc 1620
caatgggaat attcagcaga ggacagtgtt gccaaaactt gttagctgag ctcacgtccc 1680
ctgatgctgg taacctgaaa gatacgacat tgctgagcct tactgggttg aaaaggagta 1740
gctcagacct gtttttattt gctcaataac tctactcatt tgtatctttt cagcacttaa 1800
tttttaatga agaaagtgtg tcattttgtt ttataaaaat acatgaggac aatgctttta 1860
gtttttatata tttcagaaac tttttgtgtt ctaaaagtac aatgagcctt actgtattta 1920
gtgtggcaga ataataacat cagtggcagg ccactgatta cttcatgact gccacgcatt 1980
tacagattgg tgtcaaagac attcactatg tttttatggt tcatgttata tectccccag 2040
ggtgacagcc ccttaaggcc ctcttttt 2068

```

<210> 45

<211> 1850

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte Clone Number: 1490070

<400> 45

```

gggctgcctg cctgcctgcc tgcctgcctg gcccggcccg agctccagcc tgcctcttcc 60
actggccact gcctcccacc cagggctggc atccctgctc cctgcccctgg gtcccagact 120
gtgtcctcca tcaccgcagg tcggtgaggg gctgggctgg acaccagggc ccgccctccc 180
atcactgagc tccactcctt cctcattttg ctgctgatcc tagcccaaaa caaaacaggt 240
tgagcttttt cctcccctca gaagctcttc tctggctcgt ggctgccttc tgagtgttgc 300
agacggcgcc ggccgggaag gggggcctgg gccagccctg ccaggactgg gacgctgctg 360
ctggcgctcg gccctccatc aggcagcct gtggcaggag agtgagcttt gcccgggcag 420
acgcctgagg atgatgcccc agctgcagtt caaagatgcc ttttgggtgca gggacttcac 480
agccacacag ggctacgagg tgctgctgca gcggttctg gatggcagga agatgtgcaa 540
agacatggtg gagctactgt ggcagagggc ccaggcggag gagcggtacg ggaaggagct 600
ggtgcagatc gcacggaagg caggtggcca gacggagatc aactccctga gggcctcctt 660
tgactccttg aagcagcaaa tggagaatgt gggcagctca cacatccagc tggccctgac 720
cctgcgtgag gagctgcgga gtctcgagga gtttcgtgag aggcagaagg agcagaggaa 780
gaagtatgag gccgtcatgg accgggtcca gaagagcaag ctgtcgctct acaagaaggc 840
catggagtcc aagaagacat acgagcagaa gtgccgggac gcggacgacg cggagcaggc 900
cttcgagcgc attagcgcca acggccacca gaagcaggtg gagaagagtc agaacaaagc 960
caggcagtgc aaggactcgg ccaccgaggc agagcgggta tacaggcaga gcattgcgca 1020
gctggagaag gtccgggctg agtgggagca ggagcaccgg accacctgtg aggcctttca 1080
gctgcaagag tttgaccggc tgaccattct ccgcaacgcc ctgtgggtgc acagcaacca 1140
gctctccatg cagtgtgtca aggatgatga gctctacgag gaagtgcggc tgacgtgga 1200
aggctgcagc atagacgccc acatcgacag tttcatccag gccaaagagca cgggcacaga 1260
gcccccgct ccggtgccct accagaacta ttacgatcgg gaggtcacc cgtgaccag 1320
cagccctggc atacagccgt cctgcggcat gataaagagg ttctctggac tgctgcacgg 1380
aagtcccaag accacttcgt tggcagcttc tgctgcgtcc acagagaccc tgacccccac 1440
ccccgagcgg aatgaggggtg tctacacagc catcgcagtg caggagatac agggaaaccc 1500
ggcctacca gcccaggagt accgggcgct ctacgattat acagcgcaga acccagatga 1560
gctggacctg tccgcgggag acatcctgga ggtgatcctg gaaggggagg atggctggtg 1620

```

```

gactgtggag aggaacgggc agcgtggctt cgtccctggt tcctacctgg agaagctttg 1680
aggaagggcc aggagccctt tcggacctgc cctgccagtg gagccagcag tgccccagc 1740
actgtcccca ccttgctagg gcccagaacc aagcgtcccc cagccccgag agggagcctg 1800
tcgtctccca gggaataaag gagtgcgttc tgttctcaaa aaaaaaaaaa 1850

```

<210> 46

<211> 2534

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte Clone Number: 1997814

<400> 46

```

gaagagggga tggagcaggg gctggaggag gaagaagagg tggatccccg gatccaggga 60
gaactggaga agttaaatca gtccacggat gatatcaaca gacgggagac tgaacttgag 120
gatgtctcgtc agaagttccg ctctgttctg gttgaagcaa cggtgaaact ggatgaactg 180
gtgaagaaaa ttggcaaagc tgtggaagac tccaagccct actgggaggc acggagggtg 240
gcgaggcagg ctcaagtggg agctcagaaa gccacgcagg acttccagag ggccacagag 300
gtgtctccgtg ccgccaagga gaccatctcc ctggccgagc agcggctgct ggaggatgac 360
aagcggcagt tcgactccgc ctggcaggag atgctgaatc acgccactca gaggggtcatg 420
gaggcggagc agaccaagac caggagcgag ctggtgcata aggagacggc agccagggtac 480
aatgccgcca tgggcccgat gcgacagctg gagaagaaac tcaagagagc catcaacaag 540
tccaagcctt attttgaact caaggcaaag tactatgtgc agctcgagca actgaaaaag 600
actgtggatg acctgcaggc caaactgacc ctggcaaaaag gcgagtacaa gatggccctg 660
aagaacctgg agatgatctc agatgagatc cagcagcggc ggcgctccag tgccatgggg 720
cctcggggat gcggtgttgg tgcgtagggc agcagcacat ctgtggagga tctgccaggg 780
agcaaacctg agcctgatgc catttctgtg gcctcggagg cctttgaaga tgacagctgt 840
agcaactttg tgtctgaaga tgactcgga acccagtcgg tgtccagctt tagttcagga 900
ccaacaagcc cgtctgagat gcctgaccag ttccctgcgg ttgtgaggcc tggcagcctg 960
gatctgcccc gccctgtgtc cctgtcagag tttgggatga tgttcccagt gttgggccct 1020
cgaagtgaat gcagcggggc ctccctccct gaatgtgaag tagaacgagg agacagggca 1080
gaaggggcag agaataaaac aagtgcacaa gccacaaca accggggcct cagcagtagc 1140
agtggcagtg gtggcagcag taagagccaa agcagcacct cccctgaggg ccaggccttg 1200
gagaaccgga tgaagcagct ctccctacag tgctcaaagg gaagagatgg aattattgct 1260
gacataaaaa tgggtgcagat tggctgattc atcctggggc ctggccgatg tgcatatcaa 1320
catttatata tgggaactgga gaacattgtg ccaataatca tttaatatat gccaaatctt 1380
acacgtctac tctaaactgc tctaatgaag tttcagtgac cttgagggct aaagattgtt 1440
cttctgggta agagctcttg ggctgggttt tcagagcaga gttcttgttg tgggtagact 1500
gtgactaggt tcacagcctt tgtggaacat tccgtataac ggcattgttg aagcaataac 1560
tagttcctat gaaagaacca gagctgggaa gatggctggg aagccaggcc aaagtggggg 1620
caacagcttg cttctctttc tcttctcacc ctcagtttgt atgggaaaat ggagatgtcc 1680
tctccacttt atcccacgat atctaaatga aaaagaaaga aaaccacac acaaagcaaa 1740
aactcaagta ttaagagcac atatttttga ccagtgagg gcttaaaaaa aaaaaaatcc 1800
aagaacacaa ttcattttca ccacctctgg tgttcagagg gggcttttaa aaaagcgtgt 1860
atgctgggat acccattaaa accattttct agaaggctac catgagctgc actttttggg 1920
gtgggaaagg tgaatgccag tggggatgag gggggatgag ggtaggaggg acttatagaa 1980
ggggatttgt ggctgtgggg gagaagggtt tacagcataa gccttatect gccagccaag 2040
gggattttatt ctaagagaag tgcagtgaag gaatggttgc cactgttatt agattgacaa 2100
gatgttaatt tctctgtagg ttgtaacttt aaaaataaat gaaattattt aagggttatg 2160
ctgcactagt attccttaga ggaacagtt ctttaaagtt aggaaaggga gtaggcaggc 2220
atgtgttggc aaaggctgtt aatagtagtt aagtgttaag actgcttttc tttaacgttt 2280
tcatggtaat gcataatttag agcactgtat ttttgtcttg ttaagaaaat ttagcatttc 2340
taaaagaaaa aagcaaccct ctttcaaact gtttaattctg tcacagcctg tatatttttag 2400

```

```

tcattttgtaa atctcttcat acaatagtga cttctttttt gactgataca gtatcttaat 2460
tacaagggtta ttttgtactt gtcttaatac actaagtgtg ataaaaacgg cttgagaaaa 2520
gttaaaaaaaa aaaa                                     2534

```

<210> 47

<211> 3786

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte Clone Number: 2299715

<400> 47

```

ccgtcctcga ggcgaggaga gtaccggggc ggcccggctg ccgcgcgagg agcgcggtcg 60
gcggcctggt ctgcggctga gatacacaga gcgacagaga catttatgtg tatttgtttt 120
ttggtggcaa aaagggaaaa tggcgaacga ctcccctgca aaaagtctgg tggacatcga 180
cctctcctcc ctgcgggatc ctgctgggat ttttgagctg gtggaagtgg ttggaaatgg 240
cacctatgga caagtctata agggtcgaca tgtaaaaacg ggtcagttgg cagccatcaa 300
agttatggat gtcactgagg atgaagagga agaaatcaaa ctggagataa atatgctaaa 360
gaaatactct catcacagaa acattgcaac atattatggg gctttcatca aaaagagccc 420
tccaggacat gatgaccaac tctggcttgt tatggagttc tgtggggctg ggtccattac 480
agaccttgtg aagaacacca aagggaacac actcaaagaa gactggatcg cttacatctc 540
cagagaaatc ctgaggggac tggcacatct tcacattcat catgtgattc accgggatat 600
caagggccag aatgtgttgc tgactgagaa tgcaggggtg aaacttgttg actttgggtg 660
gagtgtcag ctggacagga ctgtggggcg gagaaatacg ttcataggca ctccctactg 720
gatggctcct gaggtcatcg cctgtgatga gaaccagat gccacctatg attacagaag 780
tgatctttgg tcttgtggca ttacagccat tgagatggca gaagtgctc cccctctctg 840
tgacatgcat ccaatgagag cactgtttct cattcccaga aacctcctc cccggctgaa 900
gtcaaaaaaa tggtcgaaga agtttttttag ttttatagaa gggtgccctg tgaagaatta 960
catgcagcgg cctctacag agcagctttt gaaacatcct tttataaggg atcagccaaa 1020
tgaaaggcaa gttagaatcc agcttaagga tcatatagat cgtaccagga agaagagagg 1080
cgagaaagat gaaactgagt atgagtacag tgggagttag gaagaagagg aggaagtgcc 1140
tgaacaggaa ggagagccaa gttccattgt gaacgtgcct ggtgagtcta ctcttcgccg 1200
agatttcctg agactgcagc aggagaacaa ggaacgttcc gaggtctctc ggagacaaca 1260
gttactacag gagcaacagc tccgggagca ggaagaatat aaaaggcaac tgctggcaga 1320
gagacagaag cggattgagc agcagaaaga acagaggcga cggctagaag agcaacaaag 1380
gagagagcgg gaagctagaa ggcagcagga acgtgaacag cgaaggagag aacaagaaga 1440
aaagaggcgt ctagaggagt tggagagaag gcgcaaagaa gaagaggaga ggagacgggc 1500
agaagaagaa aagaggagag ttgaaagaga acaggagtat atcaggcgac agctagaaga 1560
ggagcagcgg cacttggaa gtccttcagca gcagctgctc caggagcagg ccatgttact 1620
gcatgaccat aggaggccgc accgcagca ctgcgacag ccgccaccac cgcagcagga 1680
aaggagcaag ccaagcttcc atgctcccga gcccaaagcc cactacgagc ctgctgaccg 1740
agcgcgagag gttcctgtga gaacaacatc tcgctccctt gttctgtccc gtcgagattc 1800
cccactgcag ggcagtgggc agcagaatag ccaggcagga cagagaaact ccaccagtat 1860
tgagcccagg cttctgtggg agagagtggg gaagctgggtg cccagacctg gcagtggcag 1920
ctcctcaggg tccagcaact caggatccca gcccggtct caccctgggt ctgagagtgg 1980
ctccggggaa cgcttcagag tgagatcatc atccaagtct gaaggctctc catctcagcg 2040
cctggaaaaat gcagtgaata aacctgaaga taaaaaggaa gttttcagac ccctcaagcc 2100
tgctgatctg accgcactgg ccaaagagct tcgagcagtg gaagatgtac ggccacctca 2160
caaagtaacg gactactcct catccagtga ggagctgggg acgacggatg aggaggacga 2220
cgatgtggag cagggaagggg ctgacgagtc cacctcagga ccagaggaca aggagcagc 2280
gtcatctctg aatttgagca atggtgaaac ggaatctgtg aaaacctga ttgtccatga 2340
tgatgtagaa agtgagccgg ccatgacccc atccaaggag ggcactctaa tcgtccgcca 2400
gactcagtcg gctagtagca cactccagaa acacaaatct tcctcctcct ttacaccttt 2460

```

```

tatagacccc agattactac agattttctcc atctagcgga acaacagtga catctgtggt 2520
gggattttcc tgtgatggga tgagaccaga agccataagg caagatccta cccggaaagg 2580
ctcagtgggc aatgtgaatc ctaccaacac taggccacag agtgacaccc cggagattcg 2640
taaatacaag aagagggttta actctgagat tctgtgtgct gccttatggg gagtgaattt 2700
gctagtgggt acagagagtg gcctgatgct gctggacaga agtggccaag ggaagggtcta 2760
tcctcttate aaccgaagac gatttcaaca aatggacgta cttgagggct tgaatgtctt 2820
ggtgacaata tctggcaaaa aggataagtt acgtgtctac tatttgcctt ggtaagaaa 2880
taaaatactt cacaatgata cagaagttga gaagaagcag ggatggacaa ccgtagggga 2940
tttggaagga tgtgtacatt ataaagttgt aaaatatgaa agaatcaaat ttctggtgat 3000
tgctttgaag agttctgtgg aagtctatgc gtgggcacca aagccatatc acaaatttat 3060
ggcctttaag tcatttggag aattggtaca tggatcctgt gctggattcc atgctgttga 3120
tgtggattca ggatcagtc atgacattta tctaccaaca catatccagt gtagcatcaa 3180
accccatgca atcatcatcc tccccaatat agatggaatg gagcttctgg tgtgctatga 3240
agatgagggg gtttatgtaa acacatatgg aaggatcacc aaggatgtag ttctacagtg 3300
gggagagatg cctacatcag tagcatatat tcatccaat cagacaatgg gctggggaga 3360
gaaggccata gagatccgat ctgtggaaac tggtcacttg gatggtgtgt tcatgcacaa 3420
aagggtcaa agactaaaat tcttgtgtga acgcaatgac aagggtgttct ttgcctctgt 3480
tcggtctggg ggcagcagtc aggtttattt catgacctta ggcaggactt ctcttctgag 3540
ctggtagaag cagtgtgata cagggattac tggcctccag agtcttcaag atcctgagaa 3600
cttggaattc cttgtaactg gagctcggag ctgcaccgag ggcaaccagg acagctgtgt 3660
gtgcagacct catgtgttgg gttctctccc ctcttctctg ttctcttat ataccagttt 3720
atccccattc tttttttttt tcttactcca aaataaatca aggtgcaat gcagctggtg 3780
ctgtta                                     3786

```

<210> 48

<211> 1182

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte Clone Number: 209854

<400> 48

```

gttggtagaag tcaagcgaag ggcactagag ctccaggagg gccagttctg tgggctctag 60
tcggccatat taataaagag aaaggggaagg ctgaccgtcc ttgcctccg cccccacata 120
cacacccttt cttccactc cgctctcacg actaagctct cagattaag gcacgcctgc 180
ctcgattgtc cagcctctgc cagaagaaag cttagcagcc agcgctcag tagagacct 240
agggcgctga atgagtggga aagggaaatg ccgaccaatt gcgctgcggc gggctgtgcc 300
actacctaca acaagcacat taacatcagc ttccacaggt ttcttttga tcctaaaaga 360
agaaaagaat gggttcgcct ggttaggcgc aaaaattttg tgccaggaaa acacactttt 420
ctttgttcaa agcactttga agcctcctgt tttgacctaa caggacaaac tcgacgactt 480
aaaatggatg ctgttccaac cattttttgat ttttgtacct atataaagtc tatgaaactc 540
aagtcaagga atcttttgaa gaaaaacaac agttgttctc cagctggacc atctaattta 600
aatcaaaca ttagtagtca gcaagtacta cttgaacaca gctatgcctt taggaatcct 660
atggaggcaa aaaagaggat cattaaactg gaaaaagaaa tagcaagctt aagaagaaaa 720
atgaaaactt gcctacaaaa ggaacgcaga gcaactcgaa gatggatcaa agccacgtgt 780
ttggtaaaga atttagaagc aaatagtgtt ttacctaaag gtacatcaga acacatgtta 840
ccaactgcct taagcagtc tcttttgga gattttaaga tccttgaaca agatcaacaa 900
gataaaacac tgctaagtc aaatctaaaa cagaccaaga gtaccttcat ttaaatttag 960
cttgacacaga gcttgatgcc tatcttcat tcttttcaga agtaaagata attatggcac 1020
ttatgccaaa attcattatt taataaagtt ttacttgaag taacattact gaatttgtga 1080
agacttgatt acaaaaagaat aaaaaacttc atatggaaat tttatttgaa aatgagtgtg 1140
agtgccttac attagaatta cggactttca aaactatgat aa                                     1182

```

<210> 49
<211> 1676
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte Clone Number: 1384286

<400> 49
tcgcccagagcc cgtccgcgcg cgccatggcc accacggtga cctgcacccg cttcaccgac 60
gagtaccagc tctacgagga tattggcaag ggggctttct ctgtgggtccg acgctgtgtc 120
aagctctgca ccggccatga gtatgcagcc aagatcatca acaccaagaa gctgtcagcc 180
agagatcacc agaagctgga gagagaggct cggatctgcc gccttctgaa gcattccaac 240
atcgtgcgtc tccacgacag catctccgag gagggttcc actacctggt cttcgatctg 300
gtcactggtg gggagctctt tgaagacatt gtggcgagag agtactacag cgaggctgat 360
gccagtcact gtatccagca gatcctggag gccgttctcc attgtcacca aatgggggtc 420
gtccacagag acctcaagcc ggagaacctg cttctggcca gcaagtgcaa aggggctgca 480
gtgaagctgg cagacttcgg cctagctatc gaggtgcagg gggaccagca ggcatggttt 540
ggtttcgtg gcacaccagg ctacctgtcc cctgaggtcc ttcgcaaaga ggctacggc 600
aagcccgtgg acatctgggc atgtggggtg atcctgtaca tcctgctcgt gggctacca 660
cccttctggg acgaggacca gcacaagctg taccagcaga tcaaggctgg tgcctatgac 720
ttcccgtccc ctgagtggga caccgtcact cctgaagcca aaaacctcat caaccagatg 780
ctgaccatca accctgccaa gcgcatacaca gcccatgagg ccctgaagca cccgtgggtc 840
tgccaacgct ccacggtagc atccatgatg cacagacagg agactgtgga gtgtctgaaa 900
aagttcaatg ccaggagaaa gctcaaggga gccatcctca ccaccatgct ggccacacgg 960
aatctctcag cagccaagag ttactcaac aagaaagcag atggagtcaa gcccatacag 1020
aatagcacca aaaacagtgc agccgccacc agcccaaaag ggacgcttcc tcctgccgcc 1080
ctggagtctt ctgacagtgc caataccacc atagaggatg aagacgctaa agcccggag 1140
caggagatca ttaagaccac ggagcagctc atcgaggccg tcaacaacgg tgactttgag 1200
gcctacgca aaatctgtga cccagggtc acctcgtttg agcctgaagc actgggcaac 1260
ctgggtgaag ggatggactt ccacagattc tacttcgaga acctgctggc caagaacagc 1320
aagccgatcc acacgacat cctgaacca cactgacag tcattggaga ggatgccgcc 1380
tgcatcgctt acatccggct caccgagtac attgacgggc agggccggcc ccgaccagc 1440
cagtctgagg agaccgcgt gtggcacgc cgcgacggca agtggcagaa cgtgcacttc 1500
cactgctcgg gcgcgcctgt gggcccgctg cagtgaagag ctgcgccctg gtttcgcccg 1560
acagagttgg tgtttggagc ccgactgcc tcgggcacac ggctgctg tgcagtgtt 1620
gtgtctgcct cgttccctcc cctggtgct gtgtctgcag aaaaacaagc ccgact 1676

<210> 50
<211> 1597
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte Clone Number: 1512656

<400> 50
tcggccttcg gaaagacccc cgggcccggg caccgagaga gccgagcgcc gcagccgtga 60
gccgaataga gccggagaga cccgagtatg accggagaag cccaggccgg ccggaagagg 120
agccgagcgc ggccggaagg aaccgagccc gtccgaaggg agcggacgca gcctggcctg 180
gggcccggtc gagcccgcgc catggcgccc gaggcgacag ctgtggccgg aagcggggct 240
gttggcggtc gcttgcccaa agacggcttg cagcagtcta agtggccgga cactacccca 300
aaacggcggc gcgcctcgtc gctgtcgcgt gacgccgagc gccgagccta ccaatggtgc 360

```

cgggagtagt tgggcggggc ctggcgccga gtgcagcccg aggagctgag ggtttaccce 420
gtgagcggag gcctcagcaa cctgctcttc cgctgctcgc tcccggacca cctgcccagc 480
ggtggcgagg agccccggga ggtgcttctg cggctgtacg gagccatctt gcagggcggtg 540
gactccctgg tgctagaaag cgtgatgttc gccatacttg cggagcggtc gctggggccc 600
cagctgtacg gagtcttccc agagggccgg ctggaacagt acatcccaag tcggccattg 660
aaaactcaag agcttcgaga gccagtgttg tcagcagcca ttgccacgaa gatggcgcaa 720
tttcatggca tggagatgcc tttaccaag gagccccact ggctgttttg gaccatggag 780
cggtagctaa aacagatcca ggacctgccc ccaactggcc tccctgagat gaacctgctg 840
gagatgtaca gcctgaagga tgagatgggc aacctcagga agttactaga gtctacccca 900
tcgccagtcg tcttctgcca caatgacatc caggaaggga acatcttgct gctctcagag 960
ccagaaaatg ctgacagcct catgctggtg gacttcgagt acagcagtta taactatagg 1020
ggcttttgaca ttgggaacca tttttgtgag tgggtttatg attatactca cgaggaatgg 1080
cctttctaca aagcaaggcc cacagactac cccactcaag aacagcagtt gcattttatt 1140
cgtcattacc tggcagaggc aaagaaaggc gagacctct cccaagagga gcagagaaaa 1200
ctggaagaag atttgcgttg agaagtcagt cggtagctc tggcatcca tttcttcttg 1260
ggtctgtggt ccactctcca ggcatccatg tccaccatag aatttggtta cttggactat 1320
gccagtcctc gggtccagtt ctacttccag cagaaggggc agctgaccag tgtccactcc 1380
tcactctgac tccacctcc cactccttg atttctctg gagcctccag ggcaggacct 1440
tggagggagg aacaacgagc agaaggccct ggcgactggg ctgagccccc aagtgaact 1500
gaggttcagg agaccggcct gttcctgagt ttgagtaggt ccccatggct ggcaggccag 1560
agccccgtgc tgtgtatgta acacaataaa caagctg 1597

```

<210> 51

<211> 2145

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte Clone Number: 2098635

<400> 51

```

cccacgcgtc cggacagctt gaccagttt gctttccaat caaagggcat ttattttgaa 60
tgtctctttg tggcgcaaga gccaacgcaa aaatgatggc ggcttacaat ggcggtacat 120
ctgcagcagc agcaggtcac caccaccacc atcaccacca ccttccacac ctccctctc 180
ctcacctgct tcaccaccac caccctcaac accatcttca tccgggggtc gctgccgtg 240
tacacctgt acagcagcac acctcttcgg cagctgcggc agccgcagca gcggtgcag 300
ctgcagccat gttaaaccct gggcaacaac agccatattt cccatcaccg gcaccggggc 360
aggctcctgg accagctgca gcagccccag ctacaggtaca ggctgccgca gctgctacag 420
ttaaggcgca ccatcatcag cactcgcatc atccacagca gcagctggat attgagccgg 480
atagacctat tggatatgga gcctttggtg ttgtctggtc agtaacagat ccaagagatg 540
gaaagagagt agcgctcaaa aagatgccc acgtcttcca gaatctggtc tcttgcaaaa 600
gggtcttccg ggaattgaag atgttgtgtt tttttaagca tgataatgta ctctctgccc 660
ttgacatact ccaacctcca cacattgact attttgaaga aatataatgt gtcacagaat 720
tgatgcagag tgacctacat aaaattatcg tctctcctca accactcagc tcagatcatg 780
tcaaagtttt tctttatcag attttgcgag gtttgaaata tctccattca gctggcattt 840
tacatcgaga cattaagcca gggaatctcc ttgtgaacag caactgtgtt ctaaagattt 900
gtgatttttg attggccaga gtggaagagt tagatgaatc ccgtcatatg actcagggaag 960
ttgttactca gtattatcgg gctccagaaa tctgatggg cagccgtcat tacagcaatg 1020
ctattgacat ctgggtctgtg ggatgtatct ttgcagaact actaggacga agaattattg 1080
ttcaggcaca gagtcccatt cagcagtttg atttgatcac ggatctgttg ggcacaccat 1140
cactggaagc aatgaggaca gcttgtgaag gcgctaaggc acatatactc aggggtctc 1200
ataaacgccc atctcttctc gtactctata cctgtctag ccaggctaca ctgaagctg 1260
ttcatctcct ttgcaggatg ttggtctttg atccatccaa aagaatatcc gctaaggatg 1320
ccttagccca cccctaccta gatgaagggc gactacgata tcacacatgt atgtgtaaat 1380

```

```

gttgccttttc cacctccact ggaagagttt ataccagtga ctttgagcct gtcaccaatc 1440
ccaaatttga tgacactttc gagaagaacc tcagttctgt ccgacagggt aaagaaatta 1500
ttcatcagtt ctttttgaa cagcagaaag gaaacagagt gcctctctgc atcaaccctc 1560
agtctgctgc ttttaagagc tttattagtt ccactgttgc tcagccatct gagatgcccc 1620
catctcctct ggtgtgggag tgatggtgga agataatgta ctactgaaga tghtaatgtag 1680
ctttccactg gagtctggga tttgcaattc tggagggttaa tcatgcttgt actgtaattt 1740
tactaatgaa gttttaaatt aacaaccact acttgatga tatgaataat atttagaaat 1800
gttactagac ttttaattct gtaaagtggg tgtgctttta gaagaaaaat attttaccba 1860
gagttgcaca tgttttatga atttagtgca gctgttatgg ctcacctcag aacaaaagag 1920
aattgaacca aatttgggag tttgggggtt tatgttttgt ttttcttttc taaaatgaag 1980
tgagattgtt cacacacaca cacacacaca cacacacaca caaaaacaca aaggacagtc 2040
atacattttg atatttgagc cattcctaaa gatttggggg tttctaaaac taaagaatct 2100
aggaaccttg cctgcgacca atcatggagc cacgtgagct gatcg 2145

```

<210> 52

<211> 1454

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte Clone Number: 2446646

<400> 52

```

gggttcgaat tgcaacggca gctgccgggc gtatgtgttg gtgctagagg cagctgcagg 60
gtctcgctgg gggccgctcg ggaccaattt tgaagaggta cttggccacg acttattttc 120
acctccgacc tttccttcca ggcggtgaga ctctggactg agagtggctt tcacaatgga 180
agggatcagt aatttcaaga caccaagcaa attatcagaa aaaaagaaat ctgtattatg 240
ttcaactcca actataaata tcccggcctc tccgtttatg cagaagcttg gctttggtac 300
tggggtaaat gtgtacctaa tgaagagatc tccaagagggt ttgtctcatt ctcttgggc 360
tgtaaaaaag attaatccta tatgtaatga tcattatcga agtgtgtatc aaaagagact 420
aatggatgaa gctaagattt tgaaaagcct tcatcatcca aacattgttg gttatcgtgc 480
ttttactgaa gccaatgatg gcagtctgtg tcttgctatg gaatatggag gtgaaaagtc 540
tctaaatgac ttaatagaag aacgatataa agccagccaa gatccttttc cagcagccat 600
aatttttaaaa gttgctttga atatggcaag agggttaaag tatctgcacc aagaaaagaa 660
actgcttcat ggagacataa agtcttcaaa tgttgtaatt aaaggcgatt ttgaaacaat 720
taaaatctgt gatgtaggag tctctctacc actggatgaa aatatgactg tgactgaccc 780
tgaggcttgt tacattggca cagagccatg gaaacccaaa gaagctgtgg aggagaatgg 840
tgttattact gacaaggcag acatatttgc ctttggcctt actttgtggg aaatgatgac 900
tttatcgatt ccacacatta atctttcaaa tgatgatgat gatgaagata aaacttttga 960
tgaaagtgat tttgatgatg aagcatacta tgcagcgttg ggaactaggc cacctattaa 1020
tatggaagaa ctggatgaat cataccagaa agtaattgaa ctcttctctg tatgcactaa 1080
tgaagaccct aaagatcgct cttctgctgc acacattgtt gaagctctgg aacagatgt 1140
ctagtgatca tctcagctga agtgtggctt gcgtaaataa ctgtttattc caaaatattt 1200
acatagttac tatcagtagt tattagactc taaaattggc atatttgagg accatagttt 1260
cttgtaaca tatggataac tatttctaat atgaaatatg cttatattgg ctataagcac 1320
ttggaattgt actgggtttt ctgtaaagtt ttagaaacta gctacataag tactttgata 1380
ctgctcatgc tgacttaaaa cactagcagt aaaacgctgt aaactgtaac attaaattga 1440
atgaccatta cttt 1454

```

<210> 53

<211> 3225

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte Clone Number: 2764911

<400> 53

```

tggagcaggg ggcggtttgg ttgcgcggta ctagcgggtgc ccgccgaatg gggaggaggc 60
gaggagcgag ccgtgcggcc agagcgggaa agagactcgt ctttgcgtcc gagttctgga 120
gccgccgcac cccgactcct ggggccgcgg cagcggctgc gaggggacgg gcgtccgctg 180
tctcctgggt tcccctcgta gcgacccgcg ggatcggaaa aaaaggagaa gatggaggag 240
gaggggtggca gcagcggcgg cgccgcgggg accagcgcgg acggcggcga cggaggagag 300
cagctcctca ctgtcaagca cgagctgcgg actgctaatt tgacaggaca tgctgagaag 360
gtgggaatag aaaattttga gctcctgaag gtcctaggaa ctggagctta tggaaaagta 420
tttctagttc gtaaaaataag tggccatgat actggaaaagc tgtatgccat gaaagttttg 480
aaaaaggcaa caatcgttca aaaggccaaa accacagagc atacaaggac agaacgacaa 540
gtcctggaac acattaggca gtcgccattt ttggtaacat tacattatgc tttccagaca 600
gaaaccaaac ttcattctcat tttagattat ataaatgggt gtgaactttt taccatctt 660
tctcaaagag agcgtttcac agagcatgag gtgcagattt atgttggaga gattgtgctt 720
gccctcgaa atctccacaa gttggggatt atatatcgtg atattaagct tgagaatatt 780
ctacttgatt ctaatggcca tgtggtgctg acagattttg gtctgagtaa ggagtttgtg 840
gctgatgaaa ctgaaagagc atattccttt tgtggaacta ttgaatacat ggcaccagat 900
attgtcagag ggggagattc aggacatgac aaggcagttg actggtggag tttgggtgtt 960
ctaattgatg aattactaac tggagcatct cctttcactg ttgatggaga aaaaaattcc 1020
caagctgaga tatctaggag aatattaaaa agtgagcctc catatcccca agaaatgagt 1080
gctttagcga aagacctaat tcagcgtctt ttgatgaaag atcccaagaa gagattggga 1140
tgtggtccac gtgatgcaga tgaatcaaaa gaacatctct tctttcagaa aataaattgg 1200
gatgatttag ccgccaaaaa agtgccctgca ccatttaagc cagtcattcg agatgaatta 1260
gatgtgagta actttgcaga agagttcaca gaaatggatc ccacttattc tccgcagcc 1320
ctgccccaga gttctgagaa gctgtttcag ggctattcct ttgttgtctc tccatccta 1380
ttcaagcgta atgcagctgt catagaccct cttcagtttc acatgggagt tgaacgtcct 1440
ggagtgacaa atgttgccag gagtgcaatg atgaaggact ctccattcta tcaacactat 1500
gacctagatt tgaaggacaa acccctggga gaaggtagt tttcaatttg tggaaagtgt 1560
gtgcataaaa aaagtaacca agcttttgca gtcaaaataa tcagcaaaaag gatggaagcc 1620
aatactcaaa aggaataaac agctctggaa ctctgtgaag gacaccccaa tattgtgaag 1680
ttgcatgaag tttttcatga tcagcttcac acgtttctag tgatggaact tctgaatgga 1740
ggagaactgt ttgagcgcat taagaaaaag aagcacttca gtgagacgga agccagctac 1800
atcatgagga agcttgtttc agctgtaagc cacatgcatg atgttggagt ggtgcacagg 1860
gatctgaaac ctgagaattt attgttcacc gatgaaaatg acaatttgga aattaaaata 1920
attgattttg gatttgcacg gctaaagcca ccggataatc agcccctgaa gactccatgc 1980
ttcacccttc attatgccgc ccagagctc ttgaatcaga acggctacga tgagtctgt 2040
gacctgtgga gcttgggcgt cattttgtac acaatgttgt caggacagg tcccttccaa 2100
tctcatgacc gaagtttgac gtgtaccagc gcggtggaaa tcatgaagaa aataaaaaag 2160
ggagatttct ctttgaagg agaagcctgg aagaatgtat cccaaggagg taaagatttg 2220
atccaaggac ttctcacagt agatccaaac aaaaggctta aaatgtctgg cttgaggtag 2280
aatgaatggc tacaagatgg aagtcaagct tcttccaatc ctctgatgac tccggatatt 2340
ctaggactct ccggagctgc cgtgcatacc tgtgtgaaag caaccttcca cgccttaac 2400
aaatacaaga gagagggtt ttgccttcag aatgttgata aggccctttt ggctaagaga 2460
agaaaaatga aaaagactag caccagtacc gagacacgca gcagttccag tgagagttcc 2520
cattcttctt cctctcattc tcacggtaaa actacacca ccaagacact gcagcccagc 2580
aatcctgccg acagcaataa ccgggagacc ctcttcaggt tctcggactc agtagcttag 2640
gcatggtagg agtgtatcag tgatccattg cacttttatt cctcagcat atgcctgagg 2700
cgatctttta tgcttttaaa aatgtttccc gttggtctca ttggaatctg cctcctaattg 2760
atTTTTTTca ggaaaacctg tttggttatc ctcatcctaa agcactggac agagaatgtt 2820
actgtgaata gagcacatat tactcttttt agcaacctag catgatgcca acaagactat 2880
tcttgaaaaga gcaaaggttc ctgtaaatat aattagggct agatttgagc tgcttgtaag 2940
tcacagggtt tccagatgtc tgccaacaag aatgactca tactgtgatg ataccttttg 3000
ctttgccttg tggacaatgt gggtttttga aatttgcacc cttcaacaa tgatttatca 3060

```

gagaaagggg tctgttttca aaaaagattc tgtaatgaat tttatgtgtg gcatatactt 3120
atttcttgag agaagatttt aacttattgt ttttatttta tggttacata tgatgataac 3180
ctgctattat taaacttttt ctaaaaagtg aaaaaaaaaa aaaaa 3225

<210> 54

<211> 2110

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte Clone Number: 3013946

<400> 54

tcgccgagcc cgtccgccgc cgccatggcc accacgggtga cctgcacccg cttcacccgac 60
gagtaccagc tctacgagga tattggcaag ggggctttct ctgtgggtccg acgctgtgtc 120
aagctctgca cgggccatga gtatgcagcc aagatcatca acaccaagaa gctgtcagcc 180
agagatcacc agaagctgga gagagaggct cggatctgcc gccttctgaa gatttccaac 240
atcgtgcgtc tccacgacag catctccgag gagggcttcc actacctggg cttcgatctg 300
gtcactgggtg gggagctctt tgaagacatt gtggcgagag agtactacag cgaggctgat 360
gccagtcact gtatccagca gatcctggag gccgttctcc attgtcacca aatgggggtc 420
gtccacagag acctcaagcc ggagaacctg cttctggcca gcaagtgcaa aggggctgca 480
gtgaagctgg cagacttcgg cctagctatc gaggtgcagg gggaccagca ggcatgggtt 540
ggtttcgctg gcacaccagg ctacctgtcc cctgagggtc ttcgcaaaga ggcgtatggc 600
aagcctgtgg acatctgggc atgtgggggtg atcctgtaca tccgtctcgt gggctaccca 660
cccttctggg acgaggacca gcacaagctg taccagcaga tcaaggctgg tgcctatgac 720
ttcccgtccc ctgagtggga caccgtcact cctgaagcca aaaacctcat caaccagatg 780
ctgaccatca accctgccaa gcgcatcaca gcccatgagg ccctgaagca cccgtgggtc 840
tgccaacgct ccacggtagc atccatgatg cacagacagg agactgtgga gtgtctgaaa 900
aagttcaatg ccaggagaaa gctcaaggga gccatcctca ccaccatgct ggccacacgg 960
aatttctcag ccaagagttt actcaacaag aaagcagatg gagtcaagcc ccagacgaat 1020
agcaccaaaa acagtgcagc cgccaccagc cccaaaggga cgcttctctc tgccgccttg 1080
gagcctcaaa ccaccgtcat ccataaccca gtggacggga ttaaggagt cttctgacagt 1140
gccaatacca ccatagagga tgaagacgct aaagccccca ggggtccccga catcctgagc 1200
tcagtgagga ggggctcggg agccccagaa gccagagggc ccctgccctg cccatctccg 1260
gtcccttttg gccccctgcc agctccatcc cccaggatct ctgacatcct gaactctgtg 1320
agaaggggtt caggaacccc agaagccgag gggccctctc cagcgggggc cccgcctgc 1380
ctgtctccgg ctctcctagg cccctgtcc tccccgtccc ccaggatctc tgacatcctg 1440
aactctgtga ggaggggctc agggacccca gaagccaagg gccctctgcc agtggggccc 1500
ccgccctgcc catctccgac tatccctggc ccctgcccc ccccatcccg gaagcaggag 1560
atcattaaga ccacggagca gctcatcgag gccgtcaaca acggtgactt tgaggcctac 1620
gcgaaaatct gtgacccagg gctgacctcg tttgagcctg aagcactggg caacctggtt 1680
gaagggatgg acttccacag attctacttc gagaacctgc tggccaagaa cagcaagcca 1740
atccacacga ccattctgaa cccacacgtg cacgtcattg gagaggatgc cgctgcac 1800
gcttacatcc ggctcacgca gtacattgac gggcagggcc ggccccgcac cagccagtct 1860
gaggagaccc gcgtgtggca ccgccgcgac ggcaagtggc agaattgtgca cttccactgc 1920
tcgggcgcgc ctgtggcccc gctgcagtga agagctgcgc cctggtttcg ccggacagag 1980
ttggtgtttg gagcccgaact gccctcgggc acacggcctg cctgtcgcac gtttgtgtct 2040
gcctcgttcc ctcccctggg gcctgtgtct gcagaaaaac aagaccagat gtgatttgtt 2100
aaaaaaaaaa 2110

<210> 55

<211> 2140

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte Clone Number: 067967

<400> 55

```
gtgctgctgag ctgctgctgag tggctgagag taccctgtggg agcgtcgcgc cgcggaggca 60
gccgtcccgg cgtaggtggc gtggccgacc ggacccccaa ctggcgccctc tccccgcgcg 120
gggtcccagag ctaggagatg ggaggcacag ctctgtgggccc tgggcggaag gatgcggggc 180
cgctgtggggc cgggtctcccg ccccgagcagc ggaggttggg ggatggtgtc tatgacacct 240
tcatgatgat agatgaaacc aaatgtcccc cctgttcaaa tgtactctgc aatccttctg 300
aaccaccttc acccagaaga ctaaataatga cactgagca gtttacagga gatcatactc 360
agcactttttt ggtggagggt gagatgaagg tagaacagct gtttcaagaa tttggcaaca 420
gaaaatccaa tactattcag tcagatggca tcagtgcctc tgaaaaatgc tctcctactg 480
tttctcaggg taaaagtcca gattgcttga atacagtaaa atccaacagt tcatccaagg 540
cacccaaagt ggtgcctctg actccagaac aagccctgaa gcaatataaa caccacctca 600
ctgcctatga gaaactggaa ataattaatt atccagaaat ttactttgta ggtccaaatg 660
ccaagaaaag acatggaggt attggtgggt ccaataatgg agggatgat gatgcagatg 720
gggcctatat tcatgtacct cgagaccatc tagcttatcg atatgaggtg ctgaaaatta 780
ttggcaagggt gagttttggg caggtggcca ggggtctatga tcacaaactt cgacagtacg 840
tggccctaaa aatggtgcgc aatgagaagc gctttcatcg tcaagcagct gaggagatcc 900
ggattttgga gcactttaag aaacaggata aaactggtag tatgaacgtt atccacatgc 960
tggaaaagtt cacattccgg aaccatgttt gcattggcctt tgaattgctg agcatagacc 1020
tttatgagct gattaaaaaa aataagtttt aggggttttag cgtccagttg gtacgcaagt 1080
ttgccagtc catcttgcaa tctttggatg cctccacaa aaataagatt attcactgcg 1140
atctgaagcc agaaaacatt ctctgaaac accacgggag cagttcaacc aaggtcattg 1200
actttgggtc cagctgtttc gactaccaga agctctacac atatatccag tctcggttct 1260
acagagctcc agaaatcatc ttaggaagcc gctacagcac accaattgac atatggagtt 1320
ttggctgcat ccttgagaa cttttaacag gacagcctct cttccctgga gaggatgaag 1380
gagaccagtt ggcctgcatg atggagcttc tagggatgcc accaccaaaa cttctggagc 1440
aatccaaacg tgccaagtac tttattaatt ccaagggcat accccgctac tgctctgtga 1500
ctaccagggc agatgggagg gttgtgcttg tggggggtcg ctacagtagg ggtaaaaagc 1560
ggggtcccc aggcagcaaa gactggggga cagcactgaa aggggtgtgat gactacttgt 1620
ttatagagtt cttgaaaagg tgtcttcact gggacccctc tgcccgttg accccagctc 1680
aagcattaag acacccttgg attagcaagt ctgtcccccag acctctcacc accatagaca 1740
agggtgtcagg gaaacgggta gttaatcctg caagtgcctt ccagggttg ggttccaagc 1800
tgctccaggt tggtggaata gccataaagc ttaaagctaa cttaatgtca gaaaccaatg 1860
gtagtatacc cctatgcagt gtattgcaa aactgattag ctagtggaca gagatatgcc 1920
cagagatgca tatgtgtata tttttatgat cttacaaacc tgcaaatgga aaaaatgcaa 1980
gccattggt ggatgttttt gttagagtag acttttttta aacaagacaa aacattttta 2040
tatgattata aaagaattct tcaagggtta attacctaac cagcttgtat tggccatctg 2100
gaatatgcat taaatgactt tttataggtc aaaaaaaaaa 2140
```

<210> 56

<211> 1728

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte Clone Number: 346275

<400> 56

```
gacagacaaa ggcgcgccac gcgtccgcat gtcggatgtt tgtagcagtc agagagcaga 60
```

```

acatgagcat ctgccaggctc tggttccccc accatcaggg atgggagtga gaaaggggag 120
ttcccctctg aagagccacc cctgcaggga gaaatctgtc tccaacagga gatctgggaa 180
gaccatagtg agaagtgtctg tcgaagaggt cgcacacagc ggccttttcc gaagtgggtt 240
tagcgaagag aaggcaactg gcaagctctt tgctgtgaag tgtatcccta agaaggcgct 300
gaagggcaag gaaagcagca tagagaatga gatagccgtc ctgagaaaga ttaagcatga 360
aaatattgtt gccctggaag acatttatga aagcccaaat cacctgtact tggatcatga 420
gctgggtgtc ggtggagagc tgtttgaccg gatagtggag aaggggtttt atacagagaa 480
ggatgccagc actctgatcc gccaaagtctt ggacgccgtg tactatctcc acagaatggg 540
catcgtccac agagacctca agcccgaaaa tctctgttac tacagtcaag atgaggagtc 600
caaaataatg atcagtgact ttggattgtc aaaaatggag ggcaaaggag atgtgatgtc 660
cactgcctgt ggaactccag gctatgtgc tctgaagtc ctgccccaga aaccttacag 720
caaagccgtt gactgctggt ccacggagt gattgcctac atcttgtctc gcggctaccc 780
tcctttttat gatgaaaatg actccaagct ctttgagcag atcctcaagg cggaatatga 840
gtttgactct ccctactggg atgacatctc cgactctgca aaagacttca ttcggaacct 900
gatgggaag gacccgaata aaagatacac gtgtgagcag gcagctcggc acctatggat 960
cgctgggtgac acagccctca acaaaaacat ccacgagtc gtcagcgccc agatccggaa 1020
aaactttgcc aagagcaaat ggagacaagc atttaatgcc acggccgtcg tgagacatat 1080
gagaaaacta cacctcgga gcagcctgga cagttcaaat gcaagtgtt cgagcagcct 1140
cagtttgccc agccaaaaag actgtgcgta tgtagcaaaa ccagaatccc tcagctgaca 1200
ctgaagacga gcctggggtg gagaggagg agccggcatc tgccgagcac ctctgtttg 1260
ccaggcgctt tctatactta atcccatgtc atgcgacctt aggacttttt ttaacatgta 1320
atcactgggc cgggtgcagt ggctcacgcc tgtaatccca acactttggg aggtgagggc 1380
aggaggactg tttgagttca ggagttttaa gaccagcctg accaactatg tgaaacccca 1440
tctctactaa aatataaaaa ttagccgggt gtgggtggcg gcacctgtaa tgtcagctac 1500
ttgggaggct gaggcaggag aatcacttga acccaggaag cggaggttgc aatgagctga 1560
gatcacacca ctgcactcca gcctgggtga cagattgaga ctccctctca aaaaaaaaag 1620
ggaaatcatt gaacactcgt ggaaccctag gtattgcata ttccatttac ggtttgggaa 1680
tccagggtc aagtcctcgc aggggtaccg agctcgagat cgtaatca 1728

```

<210> 57

<211> 1610

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte Clone Number: 283746

<400> 57

```

gtcgctctg aaggagaacc attttccatc tctttcatag ttttttcccc cagtcagcgt 60
ggtagcggta ttctccgcgg cagtgcagat aattgttttt gcctcttttag ccaagacttc 120
cgccctcgat caagatggtg gttggacggc ctctctaacc ttacggggc ctggcgggtgc 180
tgacgcctga gctggtagg gtggagcagg taggaaacag caaatgcaga agctgctgcg 240
cggaagtcgg ccactggactg gaaagaagt ctctcgtcgg gcctagcgac ccccaacacc 300
tgtccaaaca ctgcctgctg aagatgaagt cttactacag aaattaagag aggaatcaag 360
agctgtcttt ctacaaaaga aaagcagaga actgttagat aatgaagaat tacagaactt 420
atggtttttg ctggacaaac accagacacc acctatgatt ggagaggaag cgatgatcaa 480
ttacgaaaac tttttgaagg ttggtgaaaa ggctggagca aagtgcagc aatttttcac 540
agcaaaagtc tttgctaaac tccttcatac agattcatat ggaagaattt ccatcatgca 600
gttctttaat tatgtcatga gaaaagtgtt gcttcacaa acaagaatag gactcagttt 660
atatgatgtc gctgggcagg ggtaccttcg ggaatctgat ttagaaaact acatattgga 720
acttatccct acgttgccac aattagatgg tctggaaaaa tctttctact ctttttatgt 780
ttgtacagca gtttaggaagt tcttcttctt tttagatcct ttaagaacag gaaagataaa 840
aattcaagat atttttagcat gcagcttcct agatgattta ttggagctaa gggatgagga 900

```

```

actgtccaag gagagtcaag aaacaaattg gttttctgct ctttctgccc taagagttta 960
tggccagttac ttgaatcttg ataaagatca caatggcatg ctacagtaaag aagaactctc 1020
acgctatgga acagctacca tgaccaatgt cttcttagac cgtgttttcc aggagtgtct 1080
cacttatgat ggagaaatgg actataagac ctacttggac tttgtccttg cattagaaaa 1140
cagaaaggaa cctgcagctc tacaatatat tttcaaactg cttgatattg agaacaaagg 1200
atacctgaat gtctttttcac ttaattattt ctttagggcc atacaggaac taatgaaaat 1260
ccatggacaa gatcctgttt catttcaaga tgtcaaggat gaaatctttg acatggtaaa 1320
accaaaggat cctttgaaaa tctctcttca ggatttaatc aacagtaatc aaggagacac 1380
agtaaccacc attctaactg atttgaatgg cttctggact tacgagaaca gagaggctct 1440
tgttgcaaat gacagtgaat actctgcaga ccttgatgat acatgatctc tgaaagacta 1500
gactgtctta tattatgaga tacttgaatg ctgcatgtaa agcctttaa gcaaaatcct 1560
cagaaatggt ctaaataaaa cacttgatat gcctagagaa aaaaaaaaaa 1610

```

<210> 58

<211> 1290

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte Clone Number: 2696537

<400> 58

```

ccggctcccc ccgggaagtt ctaggccgccc gcacagaaa cctgcccctc cagccggggt 60
ctctggagcgc ccctggggttg cccggccggt ccctgccgct gacttggtga cactgcgagc 120
actcagtcctc tcccgcgcgc ctcctcccc cccgccccgc cgtcctcctc ccctgtaaca 180
tgccatagtg cgctgcgac cacacggcgc gggcgctagc gtctgccttc agccaccatg 240
gggaatggga tgaacaagat cctgcccggc ctgtacatcg gcaacttcaa agatgccaga 300
gacgcggaac aattgagcaa gaacaagggt acacatattc tgtctgtcca tgatagtgcc 360
aggcctatgt tggagggagt taaatacctg tgcaccccag cagcggattc accatctcaa 420
aacctgacaa gacatttcaa agaaagtatt aaattcattc acgagtgccg gctccgcggt 480
gagagctgcc ttgtacactg cctggccggg gtctccagga gcgtgacact ggtgatcgca 540
tacatcatga ccgtcactga ctttggtctg gaggatgccc tgcacaccgt gcgtgctggg 600
agatcctgtg ccaaccccaa cgtgggcttc cagagacagc tccaggagtt tgagaagcat 660
gaggtccatc agtatcgga gtggctgaag gaagaatatg gagagagccc tttgcaggat 720
gcagaagaag ccaaaaacat tctggccgct ccgggaattc tgaagtcttg ggcctttctc 780
agaagactgt aatgtacctg aagtttctga aatattgcaa acccacagag tttaggctgg 840
tgctgccaaa aagaaaagca acatagagtt taagtatcca gtagtgattt gtaaacttgt 900
ttttcatttg aagctgaata tatacgtagt catgtttatg ttgagaacta aggatattct 960
ttagcaagag aaaatatttt ccccttatcc ccactgctgt ggaggtttct gtacctcgct 1020
tggatgcctg taaggatccc gggagccttg ccgcactgcc ttgtgggtgg cttggcgctc 1080
gtgattgctt cctgtgaacg cctcccaagg acgagcccag ttagttgttg tggcgtgaac 1140
tctgcccgtg tgttctcaaa tccccagct tgggaaatag cccttgggtg gggttttatc 1200
tctggtttgt gttctccgtg gtggaattga ccgaaagctc tatgttttcg ttaataaagg 1260
gcaacttagc caagtttaaa aaaaaaaaaa 1290

```

<210> 59

<211> 2281

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte Clone Number: 551178

<400> 59

```

tgatgatcca gatgttaaag cacaagtgga agtgctgtcc gctgcactac gtgcttccag 60
cctggatgca catgaagaga ccatcagtat agaaaagaga agtgatttgc aagatgaact 120
ggatataaat gagctaccaa attgtaaaat aaatcaagaa gattctgtgc ctttaatcag 180
cgatgctgtt gagaatatgg actccactct tcaactatatt cacagcgatt cagacttgag 240
caacaatagc agtttttagcc ctgatgagga aaggagaact aaagtacaag atggtgtacc 300
tcaggcgttg ttagatcagt atttatctat gactgaccct tctcgtgcac agacgggtga 360
cactgaaatt gctaagcact gtgcatatag cctccctggg gtggccttga cactcggaag 420
acagaattgg cactgcctga gagagacgta tgagactctg gcctcagaca tgcagtggaa 480
agttcgacga actctagcat tctccatcca cgagcttgca gttattcttg gagatcaatt 540
gacagctgca gatctggttc caatttttaa tggattttta aaagacctcg atgaagtacg 600
gataggtgtt cttaaacact tgcattgattt tctgaagctt cttcatattg acaaaagaag 660
agaatatctt tatcaacttc aggagttttt ggtgacagat aatagtagaa attggcgggt 720
tcgagctgaa ctggctgaac agctgatttt acttctagag ttatatagtc ccagagatgt 780
ttatgactat ttactgcccc ttgctctgaa tctgtgtgca gacaaagttt cttctgttcg 840
ttggatttcc tacaagttgg tcagcgagat ggtgaagaag ctgcacgcgg caacaccacc 900
aacgttcgga gtggacctca tcaatgagct tgtggagaac tttggcagat gtcccaagtg 960
gtctggtcgg caagcctttg tctttgtctg ccagactgtc attgaggatg actgccttcc 1020
catggaccag tttgctgtgc atctcatgcc gcactctgcta acctagcaa atgacagggg 1080
tcctaactgt cgagtgtctg ttgcaaagac attaaagaca actctactag aaaaagacta 1140
tttcttggcc tctgccagct gccaccagga ggctgtggag cagaccatca tggctcttca 1200
gatggaccgt gacagcgatg tcaagtattt tgcaagcatc caccctgcca gtacaaaaat 1260
ctccgaagat gccatgagca cagcgtcctc aacctactag aaggcttgaa tctcgggtgc 1320
tttcttgcct ccatgagagc cgaggttcag tgggcattcg ccacgcatgt gacctgggat 1380
agctttcggg ggaggagaga cttcctctc ctgcggactt cattgcaggt gcaagttgcc 1440
tacaccaat accagggtatt tcaagagtca agagaaagta cagtaaaccac tattatctta 1500
tcttgacttt aaggggaaat aatttctcag aggattataa ttgtcaccga agccttaa 1560
ccttctgtct tctgactga atgaaacttg aattggcaga gcattttcct tatggaagg 1620
atgagattcc cagagacctg cattgctttc tcttggtttt atttaacaat cgacaaatga 1680
aattcttaca gcctgaaggc agacgtgtgc ccagatgtga aagagacctt cagtatcagc 1740
cctaactctt ctctcccagg aaggacttgc tgggctctgt ggccagctgt ccagcccagc 1800
cctgtgtgtg aatcgtttgt gacgtgtgca aatgggaaag gaggggtttt tacatctcct 1860
aaaggacctg atgccaacac aagtaggatt gacttaaact cttaaagcga gcatattgct 1920
gtacacattt acagaatggt tgcctgagtg ctgtgtctga ttttttcatg ctggtcatga 1980
cctgaaggaa atttattaga cgtataatgt atgtctgggt tttttaactt gatcatgatc 2040
agctctgagg tgcaacttct tcacatactg tacatactg tgaccactct tgggagtgct 2100
gcagtcctta atcatgctgt ttaaactgtt gtggcacaag ttctcttgtc caaataaaa 2160
ttattaataa gatctataga gagagatata tacacttttg attgttttct agatgtctac 2220
caataaatgc aatttgtgac ctgtattaat gatttaaagt gggaaactag attaaaatat 2280
a
2281

```

<210> 60

<211> 632

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte Clone Number: 619292

<400> 60

```

cggacgcgtg ggggtccagcc gcagctccag caccgaggac ttctgctacg tcttcacggt 60
ggagctggaa cgaggccctt cggggctggg gatgggcctg atcgacggga tgcacacgca 120
cctgggcgcc cccgggtctt acatccagac cctgctcccc ggcagccccg cagcggccga 180
cgggcgcctg tcgctggggg accgtatcct ggaggtgaat ggcagcagcc tcctgggcct 240

```

```

tggctacctg agagctgtgg acctgatccg tcatggcggg aagaagatgc ggttcctggt 300
cgcggaagtcc gacgttgga aacagccaag aagatccatt tccgcacgcc cctctctag 360
gggggctgcg aggacacccc cacaggcccg gcacccggtc ccacctggtg acactgggct 420
tcctcccgcc ttcgtccctg ttttgtaact gaccaagtgt ggtcccggtt ggggagcctc 480
acctgggga catgcctgtt gataacatgc atctcagtgt aggttctatt tatatggcag 540
atgacgtgaa attgtgatgt ttgttacaga gcttttatgt ttaaagactt caatggagaa 600
gtacgggttca ataaactatt tttcccggtc tt                                     632

```

<210> 61

<211> 2347

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte Clone Number: 2054049

<400> 61

```

cccagtttta tcatggattc atcctgaaag tcaagccaca atcactcggg gtagccagcc 60
catggttgga gtgagtggaa agcgaagcaa agaagatgaa aaataccttc aagctatcat 120
ggattccaat gccagtcctc acaaaatctt tatatttgat gcccgccaa gtgtaaatgc 180
tggtgccaac aaggcaaagg gtggagggtta tgaaagtga gatgcctatc aaaatgctga 240
actagttttc ctggatatcc acaatattca tgttatgaga gaatcattac gaaaacttaa 300
ggagattgtg taccccaaca ttgaggaaac ccactgggtg tctaacttgg aatctactca 360
ttggctagaa gtatattaagc ttattcttgc aggggctctt aggattgctg acaaggtaga 420
gtcagggaag acgtctgtgg tagtgcattg cagtgatggg tgggatcgca cagctcagct 480
cacttccctt gccatgctca tgttggtgg atactatcga accatccgag gatttgaagt 540
ccttgtggag aaagaatggc taagttttgg acatcgattt caactaagag ttggccatgg 600
agataagaac catgcagatg cagacagatc gcctgttttt cttcaattta ttgactgtgt 660
ctggcagatg acaagacagt ttcctaccgc atttgaattc aatgagtatt ttctcattac 720
cattttggac cacctataca gctgcttatt cgggaacattc ctctgtaata gtgaacaaca 780
gagaggaaaa gagaatcttc ctaaaaggac tgtgtcactg tggctttaca taaacagcca 840
gctggaagac ttcactaatc ctctctatgg gagctattcc aatcatgtcc tttatccagt 900
agccagcatg cgccacctag agctctgggt gggatattac ataagggtga atccacggat 960
gaaaccacag gaacctattc acaacagata caaagaactt cttgctaaac gagcagagct 1020
tcagaaaaaa gttagggaac tacagagaga gatttctaac cgatcaacct catcctcaga 1080
gagagccagc tctcctgcac agtgtgtcac tctgtccaa actgttgat aaaggactgt 1140
aagatcaggg gcatcattgc tataactctt tgattacact ggcagctcta tgagtagaaa 1200
gtcttcggaa tttagaacct atctatgaga gaaagttcag tcactttatt tattttaaat 1260
ctctctagga tgagtttaga actgtagcag tgcagggtggc ttaagtgaag taactccata 1320
tgtaattaca tgattatgat actaatcttt taagtatcca aagaatatta aaatacttca 1380
atcctggatt cacagtggga acaagtttct attaaaaggc aaatgctgtt acaaattttt 1440
ggcatctggg aatattaaaa ccatttttaga aatacactct gtgctcactg tgcagaggaa 1500
catcagtttt caaaccaaca ctgaaattct gtggcatcac atatttggt ccttgatgtc 1560
atgacagattc aaaatcattt gatattccct tctccattct aggtttttct ttttttcagt 1620
aactgattta ccttgatcac ttttcaactt ccatattctt catatagtaa aaggcaagt 1680
gttgaagata ctacgggtgtg gtagtagttg aaaattattg ccgtcattat ttacatactt 1740
aagacatatt agcaagttga tccaaaatgg gaggccttat agatgtgctt gggggaaaaa 1800
gaaggggaga aagtagccat acaggagttc aaagaattcc atgcccttca gattagccca 1860
attaccagaa acatcatgaa agatatttta aaaactaatt atttactaca gtgtatttca 1920
cttgtcttgt gtgtctgaac acacagaagc taattagcaa gtttttaaga agtattttaa 1980
aatcttacta ggattgacat tttttctgaa ttctgtataa atagcttata gtgagaagta 2040
ctgtgtctcaa attttacatt tttttccttt gcaaattctg taatttcact caacgattaa 2100
gtctacaaa gaacacactg catgtaaaag atgtattaca atctcaaagc cagtaaaaaga 2160
aatcttgctt cactgttcac ctgctacaag taagagtttg gtgctggtag aaacatttga 2220

```

ctctgatgtc tatatttattc tacataagag ccatatgtaa tgtactgtaa caaaggagct 2280
 tcttgtcccc ttggtctttt aattaaaaga aattccaact gactttttaa ctttaaaaaa 2340
 aaaaaaa 2347

<210> 62

<211> 1737

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte Clone Number: 2843910

<400> 62

ccggggctga gcggtcggct gcagcggcgc ggagggcgct tccctgggtct gccgcgggtcc 60
 ccgcccgtcc cgccgcgggc tgccatggca ggagccggag ggttcggctg ccccgccggc 120
 ggcaacgact tccagtgggtg cttctcgcag gtcaaggggg ccatcgacga ggacgtggcc 180
 gaagcggaca tcatttccac cgttgagttt aattactctg gagatcttct tgcaacagga 240
 gacaagggcg gcagagtgtg tatttttcag cgtgaacaag agaataaaaag ccgccctcat 300
 tctaggggag aatataagtgt ttacagcacc tttcaaagtc atgaaccgga gtttgactat 360
 ttgaaaagtc tagaaattga ggaaaaaatt aataaaatta ggtgggttacc acaacagaat 420
 gctgctcatt ttctactgtc tacaaatgat aaaactataa aattatggaa aataagtga 480
 cgggataaaa gagcagaagg ttataacctg aaagacgaag atggaagact tcgagacca 540
 tttaggatca cggcgctaog ggtcccaata ttgaagccca tggatcttat ggtagaagcg 600
 agtccacggc gaatttttgc aaatgctcac acatatcata taaattccat ttcagtaaat 660
 agtgcacatg aaacatatct ttctgcagat gacctgagaa ttaatttatg gcacttagaa 720
 atcacagata gaagctttta catcgtggac atcaagcctg ctaacatgga ggagctgacc 780
 gaagtcacga ctgcagccga gttccaccgc caccagtga acgtgttcgt ctacagcagt 840
 agcaaaggga ccatccgcct gtgtgacatg cgctcctcgg ccctgtgcga cagacactcc 900
 aagttttttg aagagcctga agatcccagc agtaggtcct tcttctcaga aataatttca 960
 tccatatccg atgtaaaatt cagtcatagt gggcgggtaca tgatgaccag agactacctg 1020
 tcgggtgaagg tgtgggacct caapatggag agcaggcccg tggagaccca ccaggctccac 1080
 gagtacctgc gcagcaagct ctgdtctctc tatgagaacg actgcatctt tgacaagttt 1140
 gagtggtgct ggaacgggtc ggatagcgcc atcatgaccg ggtcctataa caacttcttc 1200
 aggatgtttg atagagacac gcggagggat gtgaccctgg aggcctcgag agagagcagc 1260
 aaaccgcgcg ccagcctcaa accccggaag gtgtgtacgg ggggtaagcg gaggaagac 1320
 gagatcagtg tggacagtct ggacttcaac aagaagatcc tgcacacagc ctggcaccac 1380
 gtggacaatg tcattgccgt ggctgdcacc aataacttgt acatattcca ggacaaaatc 1440
 aactagagac gcgaacgtga ggaccaagtc ttgtcttgca tagttaagcc ggacattttt 1500
 ctgtcagaga aaaggcatca ttgtccgctc cattaagaac agtgacgcac ctgctacttc 1560
 ccttcacaga cacaggagaa agccgcctcc gctggaggcc cgggtgtggtt ccgcctcggc 1620
 gaggcgcgag acaggcgctg ctgctcacgt ggagacgctc tcgaagcaga gttgacggac 1680
 actgctccca aaaggtcatt actcagaata aatgtattta tttcaaaaaa aaaaaaa 1737